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RIO BLANCO OIL SHALE PROJECT
PROGRESS REPORT 5

SEPTEMBER, OCTOBER, NOVEMBER, 1975

HYDROLOGIC PROGRAM
SECTION 1.2

RAW DATA

FEBRUARY 20, 1976

GULF OIL CORPORATION
and
STANDARD OIL COMPANY (INDIANA)

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SURFACE WATER DATA COLLECTION
SECTION 1.2.2

U.S.G.S. Precipitation and Surface Water Data

Explanation - - U.S.G.S. Gage Data

Storage Type Rain Gage Stations
- Dry Fork Gulch Station
- Box Elder Gulch West of Tract C-a Station
- Corral Gulch West of Tract C-a Station

Rainfall Intensity and
Recording Type Rain Gage Stations

- Corral Gulch near Cathedral Bluffs Station
- Stake Spring Draw Station
- Yellow Creek near White River Station

Discharge, Sediment Discharge and Concentration, Water Year 1975

- Box Elder Gulch near West line of Tract C-a
- Corral Gulch near West line of Tract C-a
- Corral Gulch East of Tract C-a
- Yellow Creek near White River

Specific Conductance, Water Year 1975

- Box Elder Gulch near West line of Tract C-a
- Corral Gulch near West line of Tract C-a
- Corral Gulch East of Tract C-a
- Yellow Creek near White River

Temperature, Water Year 1975

- Box Elder Gulch near West line Tract C-a
- Corral Gulch near West line Tract C-a
- Corral Gulch East of Tract C-a
- Yellow Creek near White River

STATION: Dry Fork Gulch YEAR: 1975

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2												
3												
4									0.05			
5												
6							0.00 E					
7												
8			0.27									
9												
10												
11												
12												
13	1.25				1.42							
14						0.58		0.81				
15				0.41								
16									0.29			
17												
18												
19												
20							0.52					
21												
22												
23												
24												
25												
26												
27										1.95		
28												
29		X										
30		X										
31		X				X						
Sum												

E = reading effected by evaporation

STATION: Box Elder Gulch YEAR: 1975

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	↑	↑	↑	↑	↑	↑	✳	↑	↑	↑	↑	
2										✳		
3												
4									0.05			
5												
6		1.05					0.02" E					
7												
8			0.68						✳			
9												
10												
11	0.25							0.60				
12												
13		✳			0.76							
14							✳					
15						0.60	0.24					
16				2.04			✳					
17			✳									
18												
19												
20									0.36			
21							0.43					
22												
23												
24	✳										✳	
25												
26						✳		✳		1.80		
27						0.00						
28		↓			✳		✳					
29		X		✳								
30		X		↓		↓			↓			
31	↓	X	↓		↓	X	↓	↓		↓		
Sum												

E = reading effected by evaporation

STATION: Corral Gulch below Water Gulch YEAR: 1975

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	↑					↑		↑	↑	↕	↑	
2										↑		
3									0.70			
4												
5												
6			0.70				0.40"E					
7												
8									*			
9												
10												
11												
12					0.93							
13	0.75							1.31				
14				0.60			*					
15						0.50						
16												
17			*						0.15			
18												
19		*										
20							0.50					
21												
22												
23											↓	
24												
25												
26						*		*		2.10		
27												
28		↓					*					
29		x		*	*							
30		x		↓		↓			↓			
31	↓	x	↓		↓	x	↓	↓		↓		
Sum												

E = reading effected by evaporation

CORRAL GULCH NR CATHEDRAL BLUFFS

```
  6     6    75CORRAL GULCH NR CATHEDRAL BLUFFS
                TIME             GAGE       PCT        Σ OF
                                  HT        INCR       INCR

  6     3    75 2130.00          4.99
                2135.00          5.04       0.05       0.05
                2140.00          5.06       0.02       0.07
                2145.00          5.07       0.01       0.08
                2210.00          5.08       0.01       0.09
                2230.00          5.09       0.01       0.10
                2310.00          5.10       0.01       0.11
                  25.00          5.11       0.01       0.12
                  50.00          5.12       0.01       0.13
                 100.00          5.13       0.01       0.14

  6     7    75 1905.00          5.14
                1910.00          5.17       0.03       0.03
                1915.00          5.19       0.02       0.05
                1920.00          5.21       0.02       0.07
                1925.00          5.22       0.01       0.08
                1930.00          5.23       0.01       0.09
                1935.00          5.25       0.02       0.11
                1940.00          5.26       0.01       0.12
                1945.00          5.28       0.02       0.14
                1950.00          5.30       0.02       0.16
                1955.00          5.31       0.01       0.17
                2000.00          5.32       0.01       0.18
                2005.00          5.33       0.01       0.19
                2010.00          5.34       0.01       0.20
                2015.00          5.35       0.01       0.21
                2020.00          5.37       0.02       0.23
                2025.00          5.38       0.01       0.24
                2030.00          5.40       0.02       0.26
                2035.00          5.41       0.01       0.27
                2050.00          5.42       0.01       0.28
                2105.00          5.43       0.01       0.29
  6     8    75    5.00          5.44
                  10.00          5.45       0.01       0.01
                  15.00          5.46       0.01       0.02
                  35.00          5.47       0.01       0.03
                  45.00          5.48       0.01       0.04
```

CORRAL GULCH

6	5	75	550.00	5.48		
			555.00	5.50	0.02	0.02
			600.00	5.51	0.01	0.03
6	6	75	1450.00	5.52		
			1455.00	5.53	0.01	0.01
			1525.00	5.54	0.01	0.02
6	8	75	1955.00	5.55		
			2000.00	5.56	0.01	0.01
			2015.00	5.57	0.01	0.02
6	9	75	1810.00	5.58		
			1815.00	5.59	0.01	0.01
			1825.00	5.60	0.01	0.02
6	10	75	1425.00	5.60		
			1430.00	5.61	0.01	0.01
			1515.00	5.62	0.01	0.02
			1525.00	5.63	0.01	0.03
6	12	75	150.00	5.65		
			155.00	5.66	0.01	0.01
			220.00	5.67	0.01	0.02
6	13	75	1305.00	5.67		
			1310.00	5.68	0.01	0.01
			1315.00	5.69	0.01	0.02
			1320.00	5.70	0.01	0.03
			1330.00	5.71	0.01	0.04
			1335.00	5.72	0.01	0.05
			1340.00	5.73	0.01	0.06
			1350.00	5.74	0.01	0.07
			1430.00	5.75	0.01	0.08
			1515.00	5.76	0.01	0.09
6	16	75	1630.00	5.76		
			1635.00	5.77	0.01	0.01
			1650.00	5.79	0.02	0.03
			1655.00	5.81	0.02	0.05
			1700.00	5.82	0.01	0.06
6	18	75	1835.00	5.82		
			1840.00	5.83	0.01	0.01
			1845.00	5.84	0.01	0.02
			1940.00	5.85	0.01	0.03
6	20	75	1145.00	5.85		
			1150.00	5.86	0.01	0.01
			1200.00	5.87	0.01	0.02
			1205.00	5.88	0.01	0.03
			1210.00	5.89	0.01	0.04
			1215.00	5.90	0.01	0.05
			1220.00	5.92	0.02	0.07
			1225.00	5.93	0.01	0.08
			1230.00	5.95	0.02	0.10
			1235.00	5.96	0.01	0.11
			1240.00	5.97	0.01	0.12
			1250.00	5.98	0.01	0.13
			1325.00	5.99	0.01	0.14
			1340.00	6.00	0.01	0.15
			1345.00	6.01	0.01	0.16
			1350.00	6.02	0.01	0.17

CORRAL GULCH

```
7  13  75 1400.00     6.55
          1455.00     6.56      0.01      0.01
          1500.00     6.57      0.01      0.02
          1505.00     6.58      0.01      0.03
7  14  75 1520.00     6.58
          1525.00     6.59      0.01      0.01
          1620.00     6.60      0.01      0.02
          1625.00     6.61      0.01      0.03
          1720.00     6.62      0.01      0.04
7  16  75  410.00     6.62
           415.00     6.63      0.01      0.01
           420.00     6.64      0.01      0.02
           425.00     6.65      0.01      0.03

7  16  75 1015.00     6.66
          1020.00     6.69      0.03      0.03
          1025.00     6.76      0.07      0.10
          1030.00     6.81      0.05      0.15
          1035.00     6.82      0.01      0.16
          1040.00     6.83      0.01      0.17
          1050.00     6.84      0.01      0.18
          1055.00     6.85      0.01      0.19
          1105.00     6.86      0.01      0.20
7  16  75 1230.00     6.86
          1235.00     6.87      0.01      0.01
          1240.00     6.88      0.01      0.02
          1245.00     6.89      0.01      0.03
          1305.00     6.90      0.01      0.04
          1330.00     6.91      0.01      0.05
          1335.00     6.93      0.02      0.07
          1340.00     6.96      0.03      0.10
          1345.00     6.97      0.01      0.11
          1355.00     6.98      0.01      0.12
          1405.00     6.99      0.01      0.13
          1420.00     7.00      0.01      0.14
7  16  75 2025.00     7.01
          2030.00     7.02      0.01      0.01
          2040.00     7.03      0.01      0.02
          2045.00     7.08      0.05      0.07
          2050.00     7.13      0.05      0.12
          2055.00     7.15      0.02      0.14
          2100.00     7.16      0.01      0.15
          2105.00     7.17      0.01      0.16
          2110.00     7.18      0.01      0.17
          2120.00     7.19      0.01      0.18
          2150.00     7.20      0.01      0.19
```

CORRAL GULCH

```
6   20   75 1530.00     6.02
            1535.00     6.05     0.03     0.03
            1540.00     6.07     0.02     0.05
            1545.00     6.10     0.03     0.08
            1550.00     6.12     0.02     0.10
            1600.00     6.13     0.01     0.11
6   21   75 1245.00     6.14
            1250.00     6.15     0.01     0.01
            1255.00     6.17     0.02     0.03
            1300.00     6.18     0.01     0.04
6   21   75 1445.00     6.18
            1450.00     6.19     0.01     0.01
            1505.00     6.20     0.01     0.02
6   21   75 1610.00     6.20
            1615.00     6.21     0.01     0.01
            1710.00     6.22     0.01     0.02
            1715.00     6.24     0.02     0.04
            1720.00     6.26     0.02     0.06
            1725.00     6.27     0.01     0.07
            1730.00     6.28     0.01     0.08
            1735.00     6.29     0.01     0.09
7   09   75  230.00     6.19
             235.00     6.20     0.01     0.01
             240.00     6.21     0.01     0.02
             245.00     6.23     0.02     0.04
             250.00     6.24     0.01     0.05
             300.00     6.25     0.01     0.06
             310.00     6.26     0.01     0.07
             315.00     6.27     0.01     0.08
             320.00     6.28     0.01     0.09
             325.00     6.29     0.01     0.10
             330.00     6.30     0.01     0.11
             335.00     6.31     0.01     0.12
             340.00     6.32     0.01     0.13
             345.00     6.33     0.01     0.14
             400.00     6.34     0.01     0.15
             405.00     6.35     0.01     0.16
             410.00     6.37     0.02     0.18
             415.00     6.39     0.02     0.20
             420.00     6.45     0.06     0.26
             425.00     6.47     0.02     0.28
             430.00     6.48     0.01     0.29
             435.00     6.49     0.01     0.30
             440.00     6.52     0.03     0.33
             445.00     6.54     0.02     0.35
             500.00     6.55     0.01     0.36
```

CORRAL GULCH

```
   16  75 2325.00     7.20
          2330.00     7.22     0.02     0.02
          2335.00     7.24     0.02     0.04
          2340.00     7.25     0.01     0.05
            35.00     7.26     0.01     0.06
7  17  75 1430.00     7.27
          1435.00     7.28     0.01     0.01
          1440.00     7.29     0.01     0.02
          1450.00     7.30     0.01     0.03
          1500.00     7.31     0.01     0.04
          1525.00     7.32     0.01     0.05
          1535.00     7.33     0.01     0.06

7  28  75 1305.00     7.25
          1310.00     7.27     0.02     0.02
          1320.00     7.31     0.04     0.06
          1325.00     7.33     0.02     0.08
          1330.00     7.36     0.03     0.11
          1335.00     7.37     0.01     0.12
          1420.00     7.38     0.01     0.13
          1445.00     7.39     0.01     0.14
7  29  75 2045.00     7.40
          2050.00     7.41     0.01     0.01
          2055.00     7.43     0.02     0.03
          2100.00     7.44     0.01     0.04
          2115.00     7.45     0.01     0.05
          2120.00     7.46     0.01     0.06
          2130.00     7.47     0.01     0.07
          2135.00     7.48     0.01     0.08
          2140.00     7.49     0.01     0.09
          2200.00     7.50     0.01     0.10
7  30  75  800.00     7.50
           805.00     7.51     0.01     0.01
           810.00     7.52     0.01     0.02
           815.00     7.53     0.01     0.03
           820.00     7.54     0.01     0.04
           845.00     7.55     0.01     0.05
           850.00     7.56     0.01     0.06
           855.00     7.58     0.02     0.08
           900.00     7.61     0.03     0.11
           905.00     7.62     0.01     0.12
           945.00     7.63     0.01     0.13
```

CORRAL GULCH

7	31	75	2105.00	7.6[illegible]		
			2110.00	7.65	0.02	0.02
			2205.00	7.66	0.01	0.03
8	10	75	1450.00	7.62		
			1455.00	7.63	0.01	0.01
			1500.00	7.65	0.02	0.03
			1505.00	7.66	0.01	0.04
			1515.00	7.67	0.01	0.05
8	11	75	2050.00	7.68		
			2055.00	7.69	0.01	0.01
			2115.00	7.70	0.01	0.02
			2125.00	7.71	0.01	0.03
			2135.00	7.73	0.02	0.05
			2155.00	7.74	0.01	0.06
8	13	75	1805.00	7.76		
			1810.00	7.78	0.02	0.02
			1815.00	7.79	0.01	0.03
			1825.00	7.80	0.01	0.04
			1845.00	7.81	0.01	0.05
			1855.00	7.82	0.01	0.06
8	14	75	1400.00	7.84		
			1405.00	7.85	0.01	0.01
			1410.00	7.87	0.02	0.03
8	14	75	1705.00	7.87		
			1710.00	7.88	0.01	0.01
			1715.00	7.90	0.02	0.03
			1720.00	7.92	0.02	0.05
			1735.00	7.93	0.01	0.06

[illegible] NR [illegible]

```
 9    1   75 1210.00     7.89
             1215.00     7.90      0.01      0.01
             1240.00     7.91      0.01      0.02
 9    2   75 1350.00     7.91
             1355.00     7.92      0.01      0.01
             1420.00     7.93      0.01      0.02
 9    3   75 1715.00     7.95
             1720.00     7.96      0.01      0.01
             1725.00     7.99      0.03      0.04
             1730.00     8.05      0.06      0.10
             1735.00     8.09      0.04      0.14
             1740.00     8.11      0.02      0.16
             1745.00     8.12      0.01      0.17
             1750.00     8.15      0.03      0.20
             1755.00     8.17      0.02      0.22

 9   10   75 1855.00     8.19
             1900.00     8.25      0.06      0.06
             1905.00     8.26      0.01      0.07
             1920.00     8.27      0.01      0.08
             1930.00     8.28      0.01      0.09
             1935.00     8.32      0.04      0.13
             1940.00     8.34      0.02      0.15
             2035.00     8.35      0.01      0.16
 9   12   75 1605.00     8.36
             1610.00     8.37      0.01      0.01
             1655.00     8.38      0.01      0.02
             1700.00     8.44      0.06      0.08
             1705.00     8.49      0.05      0.13
             1710.00     8.52      0.03      0.16
             1715.00     8.54      0.02      0.18
 9   13   75 1050.00     8.54
             1055.00     8.55      0.01      0.01
             1105.00     8.57      0.02      0.03
             1110.00     8.59      0.02      0.05
             1115.00     8.61      0.02      0.07
             1120.00     8.62      0.01      0.08
             1125.00     8.64      0.02      0.10
             1130.00     8.65      0.01      0.11
             1135.00     8.66      0.01      0.12
             1140.00     8.67      0.01      0.13
             1145.00     8.68      0.01      0.14
             1150.00     8.69      0.01      0.15
             1155.00     8.70      0.01      0.16
             1200.00     8.71      0.01      0.17
             1205.00     8.72      0.01      0.18
             1210.00     8.73      0.01      0.19
             1215.00     8.74      0.01      0.20
             1220.00     8.75      0.01      0.21
             1235.00     8.76      0.01      0.22
 9   17   75 2355.00     8.77
             2400.00     8.78      0.01      0.01
                5.00     8.79      0.01      0.02
10    1   75  815.00     8.75
              820.00     8.76      0.01      0.01
              830.00     8.78      0.02      0.03
              835.00     8.79      0.01      0.04
```

```
STAKE SPRINGS DRAW
  6   [illegible]  75 2135.00      5.00
                    2140.00      5.01        0.01        0.01
                    2150.00      5.03        0.02        0.03
                    2155.00      5.04        0.01        0.04
  6   4   75 2325.00      5.04
                    2330.00      5.35        0.01        0.01
                      20.00      5.07        0.02        0.03

  6   7   75  815.00      5.08
                     820.00      5.17        0.09        0.09
                     825.00      5.22        0.05        0.14
                     830.00      5.24        0.02        0.16
                     855.00      5.25        0.01        0.17
                     905.00      5.26        0.01        0.18
                     910.00      5.27        0.01        0.19
                     915.00      5.28        0.01        0.20
                     920.00      5.29        0.01        0.21
                     925.00      5.30        0.01        0.22
                     930.00      5.31        0.01        0.23
                     935.00      5.32        0.01        0.24
                     940.00      5.33        0.01        0.25
                     945.00      5.35        0.02        0.27
                     950.00      5.36        0.01        0.28
                     955.00      5.37        0.01        0.29
                    1000.00      5.39        0.02        0.31
                    1005.00      5.40        0.01        0.32
                    1015.00      5.41        0.01        0.33
                    1020.00      5.63        0.22        0.55
  6   7   75 1120.00      5.63
                    1125.00      5.65        0.02        0.02
                    1225.00      5.66        0.01        0.03

  6   8   75 2255.00      5.66
                    2300.00      5.69        0.03        0.03
                    2305.00      5.70        0.01        0.04
                    2310.00      5.71        0.01        0.05
                    2320.00      5.72        0.01        0.06
                    2325.00      5.73        0.01        0.07
                    2355.00      5.74        0.01        0.08
                    1040.00      5.75        0.01        0.09

STAKE SPRINGS DRAW


  6   11  75STAKE SPRINGS DRAW
  6   18  75 2305.00      5.73
                    2310.00      5.74        0.01        0.01
                    2315.00      5.76        0.02        0.03
                    2320.00      5.78        0.02        0.05
                       5.00      5.81        0.03        0.08
```

STAKE SPRINGS DRAW

	20	75	1325.00	5.81		
			1330.00	5.86	0.05	0.05
			1335.00	5.87	0.01	0.06
			1340.00	5.88	0.01	0.07
			1400.00	5.89	0.01	0.08
			1405.00	5.90	0.01	0.09
			1415.00	5.91	0.01	0.10
	20	75	1540.00	5.91		
			1545.00	5.94	0.03	0.03
			1550.00	5.95	0.01	0.04
			1555.00	5.97	0.02	0.06
			1625.00	5.98	0.01	0.07
7	04	75	905.00	5.97		
			910.00	5.98	0.01	0.01
			915.00	6.07	0.09	0.10
			920.00	6.13	0.06	0.16
			925.00	6.16	0.03	0.19

STAKE SPRINGS DRAW

7	8	75	1730.00	6.10		
			1735.00	6.11	0.01	0.01
			1810.00	6.13	0.02	0.03
			1815.00	6.14	0.01	0.04
			1820.00	6.38	0.24	0.28
			1845.00	6.39	0.01	0.29
7	9	75	110.00	6.40		
			115.00	6.49	0.09	0.09
			120.00	6.65	0.16	0.25
			125.00	6.67	0.02	0.27
			130.00	6.71	0.04	0.31
			135.00	6.76	0.05	0.36
			140.00	6.83	0.07	0.43
			145.00	6.88	0.05	0.48
			150.00	6.90	0.02	0.50
			155.00	6.91	0.01	0.51
7	9	75	605.00	6.92		
			610.00	6.98	0.06	0.06
			615.00	7.08	0.10	0.16
			620.00	7.14	0.06	0.22
			625.00	7.17	0.03	0.25
			630.00	7.18	0.01	0.26
7	13	75	1445.00	7.12		
			1450.00	7.15	0.03	0.03

[illegible] SPRINGS BASIN

```
 7  15  75  1415.00     7.14
             1420.00     7.17      0.03      0.03
             1425.00     7.18      0.01      0.04
             1430.00     7.19      0.01      0.05

 7  15  75  1535.00     7.16
             1540.00     7.20      0.04      0.04
             1545.00     7.31      0.11      0.15
             1550.00     7.37      0.06      0.21

 7  15  75  1700.00     7.37
             1705.00     7.42      0.05      0.05
             1800.00     7.43      0.01      0.06
             1050.00     7.44      0.01      0.07
             1900.00     7.45      0.01      0.08
             1920.00     7.46      0.01      0.09
             1925.00     7.47      0.01      0.10
             1930.00     7.50      0.03      0.13
             1935.00     7.52      0.02      0.15
             1940.00     7.53      0.01      0.16
             1950.00     7.54      0.01      0.17
             2005.00     7.55      0.01      0.18
             2045.00     7.56      0.01      0.19
             2055.00     7.57      0.01      0.20
 7  15  75  2205.00     7.57
             2210.00     7.59      0.02      0.02
             2225.00     7.60      0.01      0.03
             2230.00     7.61      0.01      0.04
             2235.00     7.62      0.01      0.05
             2240.00     7.64      0.02      0.07
             2245.00     7.65      0.01      0.08
             2230.00     7.66      0.01      0.09
 7  16  75    435.00     7.67      0.01      0.10
              445.00     7.71      0.04      0.14
              450.00     7.74      0.03      0.17
              455.00     7.75      0.01      0.18
              510.00     7.77      0.02      0.20
              605.00     7.79      0.02      0.22
              630.00     7.80      0.01      0.23
     1[illegible]  75     50.00     7.77
               55.00     7.79      0.02      0.02
              100.00     7.80      0.01      0.03
```

```
STAKE SPRINGS DRAW

        29    75 1230.00      7.73
                 1235.00      7.76      0.03      0.03
        30       1240.00      7.87      0.11      0.14
        31       1245.00      7.90      0.03      0.17
                 1250.00      7.92      0.02      0.19
                 1245.00      7.93      0.01      0.20
              75 1220.00      7.93
     8  14       1225.00      7.94      0.01      0.01
                 1230.00      8.05      0.11      0.12




STAKE SPRINGS DRAW-CLOCK PROBLEM
STAKE SPRINGS DRAW-CLOCK PROBLEM
STAKE SPRINGS DRAW-CLOCK PROBLEM


     9  10    75  715.00      4.90
                  720.00      4.98      0.08      0.08
                  820.00      4.99      0.01      0.09
     9  14    75 1425.00      4.99
                 1430.00      5.00      0.01      0.01
                 1505.00      5.09      0.09      0.10
                 1510.00      5.18      0.09      0.19
                 1515.00      5.19      0.01      0.20
                 1525.00      5.20      0.01      0.21
STAKE SPRINGS DRAW-CLOCK PROBLEM


              75  645.00      5.08
    10  07        650.00      5.34      0.26      0.26
                  700.00      5.35      0.01      0.27
                  725.00      5.36      0.01      0.28
```

YELLOW CREEK AT MOUTH

```
    6     3    75 1710.00      5.01
                  1715.00      5.03        0.02        0.02

    6     3    75 2200.00      5.03
                  2205.00      5.05        0.02        0.02
                  2210.00      5.07        0.02        0.04
                  2215.00      5.08        0.01        0.05
                  2235.00      5.09        0.01        0.06
                  2310.00      5.10        0.01        0.07
                  2315.00      5.11        0.01        0.08
    6     4    75   50.00      5.12        0.01        0.09
                   105.00      5.13        0.01        0.10
                   135.00      5.14        0.01        0.11
    6     7    75 1905.00      5.14
                  1910.00      5.15        0.01        0.01
                  1915.00      5.16        0.01        0.02
                  1920.00      5.17        0.01        0.03
                  1925.00      5.18        0.01        0.04
                  1940.00      5.19        0.01        0.05
                  1950.00      5.20        0.01        0.06
                  1955.00      5.21        0.01        0.07
                  2000.00      5.22        0.01        0.08
                  2005.00      5.24        0.02        0.10
                  2010.00      5.25        0.01        0.11
                  2015.00      5.26        0.01        0.12
                  2020.00      5.28        0.02        0.14
                  2025.00      5.30        0.02        0.16
                  2030.00      5.31        0.01        0.17
                  2035.00      5.32        0.01        0.18
                  2040.00      5.33        0.01        0.19
                  2050.00      5.34        0.01        0.20
                  2055.00      5.35        0.01        0.21
                  2100.00      5.37        0.02        0.23
                  2105.00      5.38        0.01        0.24
                  2110.00      5.39        0.01        0.25
                  2115.00      5.40        0.01        0.26
                  2120.00      5.41        0.01        0.27
                  2125.00      5.42        0.01        0.28
    6     8    75 1735.00      5.43
                  1740.00      5.44        0.01        0.01
                  1810.00      5.45        0.01        0.02
                  1815.00      5.48        0.03        0.05
                  1830.00      5.53        0.05        0.10
                  1835.00      5.59        0.06        0.16
                  1855.00      5.60        0.01        0.17
                  1915.00      5.61        0.01        0.18
                  1940.00      5.62        0.01        0.19
```

YELLOW CREEK @ MOUTH

```
6   18   75 1630.00     5.60
            1635.00     5.62      0.02      0.02
            1640.00     5.63      0.01      0.03
            1645.00     5.64      0.01      0.04
            1655.00     5.65      0.01      0.05
            1705.00     5.65      0.01      0.06
6   18   75 1915.00     5.66
            1920.00     5.67      0.01      0.01
            1925.00     5.68      0.01      0.02
            1935.00     5.69      0.01      0.03
6   20   75 1220.00     5.70
            1225.00     5.71      0.01      0.01
            1245.00     5.72      0.01      0.02
            1305.00     5.73      0.01      0.03
            1310.00     5.74      0.01      0.04
            1315.00     5.75      0.01      0.05
            1320.00     5.77      0.02      0.07
            1325.00     5.78      0.01      0.08
6   20   75 1550.00     5.78
            1555.00     5.79      0.01      0.01
            1600.00     5.88      0.09      0.10
            1605.00     5.93      0.05      0.15
            1610.00     5.96      0.03      0.18
7    2   75 1900.00     5.92
            1905.00     5.93      0.01      0.01
          - 1915.00     5.94      0.01      0.02

7    3   75 1525.00     5.96
            1530.00     6.00      0.04      0.04
            1535.00     6.01      0.01      0.05

7    3   75 2030.00     6.01
            2035.00     6.03      0.02      0.02
            2040.00     6.05      0.02      0.04
            2055.00     6.07      0.02      0.06
            2100.00     6.11      0.04      0.10
7    8   75 1645.00     6.12
            1650.00     6.13      0.01      0.01
            1655.00     6.14      0.01      0.02
7    8   75 1900.00     6.14
            1905.00     6.15      0.01      0.01
            1915.00     6.16      0.01      0.02
            2010.00     6.17      0.01      0.03
            2020.00     6.18      0.01      0.04

7   09   75 1830.00     6.19
            1835.00     6.21      0.02      0.02
            1840.00     6.34      0.13      0.15
            1845.00     6.38      0.04      0.19
            1850.00     6.39      0.01      0.20
            1905.00     6.40      0.01      0.21
```

YELLOW CREEK @ MOUTH

7	15	75	1335.00	6.41		
			1340.00	6.49	0.08	0.08
			1345.00	6.50	0.01	0.09
			1405.00	6.51	0.01	0.10
			1410.00	6.53	0.02	0.12
			1415.00	6.59	0.06	0.18
			1420.00	6.64	0.05	0.23
			1445.00	6.65	0.01	0.24
	15	75	2020.00	6.65		
			2025.00	6.66	0.01	0.01
			2030.00	6.68	0.02	0.03
7	16	75	420.00	6.68		
			425.00	6.69	0.01	0.01
			430.00	6.75	0.06	0.07
			435.00	6.78	0.03	0.10
			440.00	6.79	0.01	0.11
7	16	75	1115.00	6.80		
			1120.00	6.82	0.02	0.22
			1140.00	6.83	0.01	0.03
7	16	75	1305.00	6.83		
			1310.00	6.84	0.01	0.01
			1410.00	6.85	0.01	0.02
			1435.00	6.86	0.01	0.03
7	16	75	1755.00	6.86		
			1800.00	6.87	0.01	0.01
			1825.00	6.92	0.05	0.06
			1830.00	6.98	0.06	0.12
7	16	75	2040.00	6.98		
			2045.00	6.99	0.01	0.01
			2050.00	7.09	0.10	0.11
			2055.00	7.11	0.02	0.13
			2100.00	7.13	0.02	0.15
			2105.00	7.14	0.01	0.16
			2110.00	7.15	0.01	0.17
			2120.00	7.16	0.01	0.18
			2130.00	7.17	0.01	0.19
			2135.00	7.18	0.01	0.20
			2145.00	7.19	0.01	0.21
			2200.00	7.20	0.01	0.22
7	30	75	1400.00	7.15		
			1405.00	7.16	0.01	0.01
			1420.00	7.17	0.01	0.02
			1425.00	7.23	0.06	0.08
			1430.00	7.24	0.01	0.09
			1435.00	7.25	0.01	0.10
			1440.00	7.27	0.02	0.12
			1530.00	7.28	0.01	0.13

YELLOW CREEK @ MOUTH

```
 7  30  75 1755.00     7.28
           1800.00     7.32      0.04      0.04

 7  31  75 1310.00     7.33
           1315.00     7.37      0.04      0.04
           1320.00     7.38      0.01      0.05
           1325.00     7.44      0.06      0.11
           1330.00     7.45      0.01      0.12
           1335.00     7.46      0.01      0.13

    11  75 2045.00     7.39
           2050.00     7.41      0.02      0.02
           2055.00     7.47      0.06      0.08
           2100.00     7.55      0.08      0.16
           2105.00     7.61      0.06      0.22
           2110.00     7.70      0.09      0.31
           2115.00     7.75      0.05      0.36
           2120.00     7.78      0.03      0.39
           2125.00     7.79      0.01      0.40
           2140.00     7.80      0.01      0.41
           2150.00     7.81      0.01      0.42
           2155.00     7.82      0.01      0.43

 9  [illegible]  75  800.00     7.81
            805.00$$$$$$$$$$$$$$$$$$$$$$$$


YELLOW CREEK AT MOUTH

 9  25  75YELLOW CREEK AT MOUTH

YELLOW CREEK AT MOUTH
 9  10  75 1850.00     7.72
           1855.00     7.73      0.01      0.01
           1955.00     7.76      0.03      0.04
```

STATION: CORRAL GULCH NR CATHEDRAL BLUFFS YEAR: 75

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				.65		↓	↑					
2												
3												
4				NO								
5		0.32		↕	0.83							
6	0.01		.07	record								
7	0.10		.05			No Record				0.26		
8	0.10								0.04		0.05	
9	0.15	0.07	.11						0.30		0.17	
10	0.02	0.04	.50					0.10	0.20		0.07	
11	0.05		.20					0.10			0.07	
12									0.22	0.10		
13		0.01					1.87	0.10	0.73			
14		0.26	.10					0.13				
15												
16		0.06	.06									
17		0.12	.21	0.19								
18				0.40								
19												
20												
21	0.12				0.01							
22			.38		0.01					0.77		
23			.12							0.63		
24										0.48		
25			.11			↓				0.25		
26			.17			↑						
27	0.07		.07	0.24								
28	0.40			0.17	0.10							
29	0.01				0.37							
30	0.38					↓	↓					
31	0.02		.72		↓	X				0.47		
Sum	1.43	0.48	2.87	1.65*				0.43	0.99	2.49		

* incomplete record

STATION: STAKE SPRINGS DRAW YEAR: 75

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		0.01		0.56								
2							0.06					
3						0.04						
4						0.04	0.27					
5		0.08			0.37							
6			0.07									
7	0.10			0.20		0.59				0.20		
8	0.07					0.10					0.17	
9	0.08		0.17				1.19				0.01	
10			0.38						0.06		0.06	
11			0.16									
12												
13							0.03					
14		0.19	0.02					0.06	0.26			
15		0.02					0.30					
16		0.08	0.01	0.20			0.39					
17		↑	0.16	0.23								
18				↑	0.02	0.07					0.06	
19				0.00							0.11	
20					0.51	0.17						
21	0.09	0.08	0.04	↓	0.11							
22			0.18		0.21					0.30		
23			0.01							0.74		
24		↓										
25			0.02									
26			0.25									
27	0.01		0.13	0.15	0.17							
28	0.31				0.60							
29					0.14		0.03					
30	0.27						0.11			0.16		
31	0.02	0.46	0.50				0.05			0.11		
Sum	0.95	0.92	2.10	1.34	2.13	1.01	2.43	0.06	0.32	1.51		

STATION: YELLOW CREEK @ MOUTH YEAR: 75

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		0.83		0.29								
2							0.04					
3		↓				0.10	0.19					
4		↑				0.02						
5			0.06		0.36							
6			0.05									
7	0.12			0.15		0.28				0.12		
8	0.21					0.23	0.09				0.14	
9	0.05		T				0.25					
10			0.25						0.04		0.16	
11			0.22					0.45				
12												
13		0.65										
14												
15							0.30					
16							0.47					
17			0.06	0.30								
18					0.12	0.07					0.02	
19											0.01	
20					0.19	0.27						
21	0.03		0.09		0.43							
22			0.05		0.04					0.50		
23										0.55		
24		↓										
25			0.02									
26			0.01									
27				0.06	0.13							
28	↑				0.30							
29		X			0.10							
30		X					0.12			0.19		
31		X	0.29				0.15			0.55		
Sum			1.17	0.80	1.67	0.97	1.61	0.45	0.04	1.91		

July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of *CORRAL GULCH BELOW WATER GULCH* River / Creek

Near *RANGELY, COLO.* for the Year Ending September 30, 19*75*.

PRELIMINARY DATA SUBJECT TO REVISION.

Drainage Area *8* Square Miles. Water-Stage Recorder *CONTINUOUS* Ratio *1 : 6*

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WATER GULCH NR. RANGELY, COLO. 1975

PRELIMINARY DATA SUBJECT TO REVISION

File Number { Washington *09306235*
District

Used rating table dated *No. 2 OCT. 1 - NOV. 23*
No. 3 NOV. 24 - SEPT. 30

Gage Read to .... Once / Twice a Day by ....

Gage heights used to half tenths between ... and ... feet; hundredths below and tenths above these limits.

Max. Disch. .... Sec.-ft. at .... oo .... (G. H. .... ft.). Max. G. H. .... ft. at .... oo
Min. Disch. .... Sec.-ft. on .... (G. H. .... ft.). Min. G. H. .... ft. on

S - DISCHARGE SUBDIVIDED. V - VARIABLE SHIFT. DISCHARGE ESTIMATED FOR "a" - NO GAGE-HEIGHT RECORD. "b" - ICE EFFECT.
** - OBSERVATION OF NO FLOW.*

Calendar Year *1974*

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge
1	1.14	.22		.20	a	.04	a	0		0		0		0	S	.02	1.18	.14	1.13	.22	1.17	.22	1.24	.32
2	1.13	.20		.20		.03						0		0	1.10	.04	1.21	.22	1.12	.22	1.18	.24	1.23	.30
3	1.13	.20		.20		.03						0	S	.05	S	.01	1.25	.32	1.12	.22	1.18	.24	1.23	.30
4		.20		.20		.02						0	S	.01	1.07	.01	1.26	.38	1.12	.22	1.21	.30	1.21	.26
5		.20		.19		.02						0	S	.02	S	.05	1.26	.41	1.12	.22	1.24	.41	1.21	.24
6		.20		.18		.02						0	S	.03	S	.03	1.24	.38	1.12	.22	1.25	.44	1.21	.24
7		.20		.18		.01						0	S	.04	1.10	.04	1.30	.60	1.11	.20	1.25	.44	1.20	.22
8		.20		.18		.01						0	S	.02	1.09	.03	1.30	.64	1.10	.18	a	.44	1.22	.24
9		.19		.18		.01						0	S	.01	S	.03	1.27	.60	1.12	.22	CLOCK STOPPAGE	.43	1.24	.30
10		.19		.18		0						0	S	.01	S	.02	1.28	.60	1.10	.16		.42	1.25	.32
11		.19		.18								0	S	.02	S	.02	1.25	.44	1.10	.14		.41	1.26	.35
12		.20		.18	1.						a	0	1.04	.02	1.09	.03	1.26	.47	1.10	.12	a	.41	1.24	.30
13		.20	1.11	.16							S	.04	S	.01	S	.02	1.23	.38	1.11	.12	1.24	.41	1.25	.32
14		.20	1.11	.16							1.05	.04	S	.03	S	.01	1.25	.44	1.11	.10	1.25	.44	1.25	.32
15		.20	1.11	.16							1.05	.04	1.08	.03	S	.02	1.24	.41	1.12	.10	1.26	.47	1.24	.30
16		.18	1.11	.16							1.02	.01	S	.06	S	.02	1.25	.41	1.14	.14	1.25	.44	1.23	.28
17		.18	1.11	.16							1.01	b .01	1.09	.05	S	.01	1.25	.41	1.14	.14	1.23	.38	1.23	.28
18		.18	1.11	.16	Well and Control Frozen						S	.01	1.05	.03	1.09	.02	1.25	.41	1.13	.12	1.23	.38	1.22	.26
19		.18	1.11	.16							S	.02	1.07	.03	S	.01	1.24	.38	1.12	.10	1.24	.38	1.21	.24
20		.18	1.12	.18							S	0	1.10	.04	1.10	.02	1.24	.38	1.14	.14	1.25	.41	1.20	.22
21		.18	1.11	.16								0	S	.04	S	.04	1.23	.35	1.14	.14	1.25	.41	1.19	.20
22		.18	1.11	.16								0	1.10	.04	1.10	.02	1.20	.28	1.13	.14	1.25	.41	1.19	.20
23		.18	1.11	.16								0	1.09	.03	S	.02	1.17	.22	1.14	.16	1.25	.41	1.19	.20
24		.20	1.16	.15								0	1.10	.04	S	.01	1.16	.20	1.14	.16	1.25	.41	1.20	.20
25		.18	1.33	.13								0	1.09	.03	S	.01	1.16	.20	1.15	.18	a	.41	1.20	.20
26		.18	1.31	.11								0	1.09	.03	S	.01	1.15	.20	1.16	.20	1.25	.41	1.21	.22
27		.18	1.32	.10								0	1.10	.04	1.11	.02	1.15	.20	1.16	.20	1.26	.41	1.21	.22
28		.19	1.33	.08						0		0	S	.03	1.16	.07	1.15	.20	1.17	.22	1.26	.41	1.21	.22
29		.20	1.28	.06					X	X	S	.01	S	.02	1.17	.08	1.13	.18	1.17	.22	1.26	.41	1.21	.22
30		.20	1.28	.05					X	X	S	.02	1.10	.04	1.16	.07	1.13	.20	1.18	.24	1.26	.41	1.21	.22
31		.20	X	X	a	0	a	0	X	X	S	.01	X	X	1.17	.10	X	X	1.18	.24	1.24	.35		
Total		5.96		4.71		.19		0		0		.21		0.85		0.91		10.65		5.40		12.15		7.71
Mean		0.19		0.16		.01		0		0														
Second-feet per square mile																								
Run-off in inches																								
Run-off in acre-feet																								
Maximum																								
Minimum																								

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

Quarter: First, Second, Third, Fourth
Computed *CEK*
Checked
Date

Quarter: First, Second, Third, Fourth
Disch. applied *TPF* *CEK*
Disch. checked *CEK*
Date

Quarter: First, Second, Third, Fourth
G. H. copied *TRF* *CEK*
G. H. checked *CEK*
Date

Period
Year

09306240 Box Elder Gulch nr Rangely

(Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	December			April			May		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0.01	5	0.00
2							.02	15	0.00
3	.02	50	0.0				.05	30	0.00
4							.22	100	.06
5							.38	100	.10
6							.31	100	.08
7							.42	125	.14
8							.30	125	.10
9							.28	125	.09
10							.40	150	.16
11							.53	150	.21
12							.66	150	.27
13							.69	150	.28
14							.76	180	.37
15							.72	190	.37
16							.86	250	.58
17							.94	275	.70
18							1.2	350	1.1
19							1.6	700	3.0
20							2.2	2100	12.
21							2.6	2720	19.
22							2.7	2940	21.
23							2.4	2480	16.
24							2.3	2570	16.
25							2.1	1960	11.
26							2.3	1650	10.
27							2.2	1680	10.
28							2.5	1400	9.4
29							2.5	1300	8.8
30				.01	2	0.0	2.4	1470	9.5
31							2.4	1520	9.8
TOTAL	.02		0.0	.01		0.0	38.95		160.11

09306240 Box Elder Gulch nr Rangely

(Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	December			April			May		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0.01	5	0.00
2							.02	15	0.00
3	.02	50	0.0				.05	30	0.00
4							.22	100	.06
5							.38	100	.10
6							.31	100	.08
7							.42	125	.14
8							.30	125	.10
9							.28	125	.09
10							.40	150	.16
11							.53	150	.21
12							.66	150	.27
13							.69	150	.28
14							.76	180	.37
15							.72	190	.37
16							.86	250	.58
17							.94	275	.70
18							1.2	350	1.1
19							1.6	700	3.0
20							2.2	2100	12.
21							2.6	2720	19.
22							2.7	2940	21.
23							2.4	2480	16.
24							2.3	2570	16.
25							2.1	1960	11.
26							2.3	1650	10.
27							2.2	1680	10.
28							2.5	1400	9.4
29							2.5	1300	8.8
30				.01	2	0.0	2.4	1470	9.5
31							2.4	1520	9.8
TOTAL	.02		0.0	.01		0.0	38.95		160.11

09306240 Box Elder Gulch nr Rangely (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION **PRELIMINARY DATA SUBJECT TO REVISION**

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	June			July			August		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.5	1010	6.8	.19	50	.03			
2	2.8	1100	8.3	.13	40	.01			
3	2.9	2100	16.	.12	30	.01			
4	2.8	1790	14.	.05	20	.00			
5	2.8	1820	14.						
6	2.8	1330	10.						
7	2.8	1520	11.						
8	2.7	530	3.9						
9	2.7	620	4.5	.70	200	.38			
10	2.5	380	2.6	.10	70	.02	.31	200	.17
11	2.3	280	1.7	.11	30	.01			
12	2.3	290	1.8	.06	20	.00			
13	2.3	190	1.2						
14	2.2	150	.89						
15	1.9	100	.51						
16	1.7	150	.69						
17	1.7	150	.69						
18	1.6	140	.60						
19	1.3	130	.46						
20	1.3	140	.49						
21	1.1	150	.45						
22	.90	90	.22						
23	.69	40	.07						
24	.60	50	.08						
25	.50	50	.07						
26	.45	40	.05						
27	.42	35	.04				No flow at other times during year.		
28	.34	35	.03						
29	.28	40	.03						
30	.22	40	.02						
31									
TOTAL	51.4		101.19	1.46		.46	.31		.17

09306242 Corral Gulch nr Rangely (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.40	60	.06	.44	80	.10	.44	195	.23
2	.40	60	.06	.44	45	.05	.44	150	.18
3	.45	65	.08	.41	45	.05	.44	160	.19
4	.46	70	.09	.41	35	.04	.44	105	.12
5	.47	70	.09	.41	15	.02	.44	100	.12
6	.50	70	.09	.41	40	.04	.41	100	.11
7	.52	75	.11	.37	20	.02	.41	75	.08
8	.52	80	.11	.37	30	.03	.41	45	.05
9	.57	55	.08	.37	40	.04	.41	55	.06
10	.58	15	.02	.36	45	.04	.41	70	.08
11	.58	20	.03	.36	45	.04	.41	65	.07
12	.58	20	.03	.35	50	.05	.41	75	.08
13	.52	40	.06	.39	50	.05	.41	75	.08
14	.52	35	.05	.63	55	.09	.41	60	.07
15	.52	30	.04	.48	65	.08	.41	70	.08
16	.52	30	.04	.36	65	.06	.41	60	.07
17	.55	30	.04	.35	60	.06	.41	60	.07
18	.47	15	.02	.34	55	.05	.64	65	.11
19	.47	10	.01	.36	50	.05	.52	70	.10
20	.52	35	.05	.38	55	.06	.47	65	.08
21	.52	75	.11	.34	55	.05	.47	55	.07
22	.52	50	.07	.34	50	.05	.44	45	.05
23	.55	70	.10	.34	50	.05	.40	45	.05
24	.55	35	.05	.34	50	.05	.34	40	.04
25	.54	20	.03	.34	50	.05	.34	30	.03
26	.48	70	.09	1.0	145	.39	.38	40	.04
27	.47	60	.08	1.0	495	1.3	.38	40	.04
28	.47	80	.10	.58	700	1.1	.38	40	.04
29	.47	25	.03	.44	340	.40	.38	40	.04
30	.44	70	.08	.44	235	.28	.38	40	.04
31	.44	50	.06				.38	40	.04
TOTAL	15.57		1.96	13.15		4.74	13.02		2.51

09306242 Corral Gulch nr Rangely

PRELIMINARY DATA SUBJECT TO REVISION

(Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.40	40	.04	.52	40	.06	.74	5500	11.
2	.40	40	.04	.52	45	.06	.84	2900	6.6
3	.40	40	.04	.52	100	.14	.64	1800	3.1
4	.40	40	.04	.52	130	.18	.58	1500	2.3
5	.40	40	.04	.52	130	.18	.61	450	.74
6	.40	40	.04	.52	135	.19	.52	760	1.1
7	.40	40	.04	.52	130	.18	.49	720	.95
8	.40	40	.04	.47	65	.08	.42	175	.20
9	.40	40	.04	.52	45	.06	.40	185	.20
10	.40	40	.04	.52	35	.05	.41	170	.19
11	.40	40	.04	.52	50	.07	.38	115	.12
12	.40	40	.04	.52	40	.06	.34	80	.07
13	.44	35	.04	.52	25	.04	.34	80	.07
14	.47	35	.04	.52	25	.04	.34	80	.07
15	.47	35	.04	.52	30	.04	.34	85	.08
16	.47	35	.04	.52	25	.04	.38	105	.11
17	.47	35	.04	.52	30	.04	.38	90	.09
18	.47	35	.04	.52	30	.04	.38	100	.10
19	.47	35	.04	.47	35	.04	.44	90	.10
20	.58	30	.05	.47	35	.04	.58	110	.18
21	.58	30	.05	.47	50	.06	.52	60	.08
22	.52	30	.04	.52	35	.05	.52	70	.10
23	.52	30	.04	.52	25	.04	.44	35	.04
24	.52	50	.07	.52	20	.03	.47	35	.04
25	.52	60	.08	.52	30	.04	.47	30	.04
26	.52	120	.17	.52	20	.03	.47	35	.04
27	.52	75	.11	.58	55	.09	.52	95	.13
28	.52	125	.18	.58	560	.88	.58	90	.14
29	.47	55	.07				.63	115	.20
30	.47	40	.05				.58	105	.16
31	.52	35	.05				.52	90	.13
TOTAL	14.32		1.72	14.48		2.85	15.27		28.47

09306242 Corral Gulch nr Rangely (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.52	80	.11	1.4	560	2.1	3.5	2880	27.
2	.52	95	.13	1.3	450	1.6	3.3	2430	22.
3	.52	85	.12	1.4	290	1.1	3.7	2740	27.
4	.52	115	.16	1.4	380	1.4	3.7	2850	28.
5	.58	140	.22	.95	320	.82	2.8	2680	20.
6	.58	170	.27	.79	200	.43	3.1	2800	23.
7	.58	140	.22	.74	195	.39	3.5	2610	25.
8	.80	1350	2.9	.58	200	.31	2.8	2300	17.
9	1.1	1650	4.9	.58	200	.31	2.8	1910	14.
10	1.1	1580	4.7	.58	200	.31	2.7	1590	12.
11	1.1	1420	4.2	.47	205	.26	2.8	1380	10.
12	1.1	1110	3.3	.47	200	.25	2.4	1440	9.3
13	1.0	920	2.5	.47	200	.25	2.2	1350	8.0
14	1.4	1380	5.2	.44	220	.26	2.2	1100	6.5
15	1.3	1320	4.6	.47	470	.60	1.8	900	4.4
16	1.3	1180	4.1	.68	580	1.1	1.9	970	5.0
17	1.2	1180	3.8	.95	880	2.3	1.8	800	3.9
18	1.3	1060	3.7	1.4	1050	4.0	1.7	850	3.9
19	1.4	940	3.6	1.4	1330	5.0	1.7	1580	7.2
20	1.4	735	2.8	1.7	1560	7.2	1.8	1780	8.6
21	1.4	620	2.3	2.3	3660	23.	1.6	770	3.3
22	1.4	695	2.6	2.8	4350	33.	1.6	470	2.0
23	1.4	880	3.3	4.2	4250	48.	1.3	550	1.9
24	1.4	1040	3.9	5.0	4130	56.	1.4	580	2.2
25	1.2	780	2.5	5.0	3870	52.	1.3	780	2.7
26	1.3	660	2.3	3.3	3390	30.	1.3	340	1.2
27	1.2	600	1.9	3.1	3210	27.	1.4	540	2.0
28	1.3	580	2.0	3.3	2880	26.	1.2	550	1.8
29	1.1	470	1.4	3.7	2610	26.	1.1	470	1.4
30	1.3	500	1.8	2.8	4050	31.	1.1	550	1.6
31				3.1	4230	35.			
TOTAL	32.32		75.53	56.77		416.99	65.5		296.23

09306242 Corral Gulch nr Rangely (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.0	120	.32	1.1	90	.27	.58	40	.06
2	.89	85	.20	1.0	90	.24	.58	35	.05
3	.84	85	.19	1.0	90	.24	.58	40	.06
4	.84	80	.18	.95	70	.18	.52	25	.04
5	.89	80	.19	.84	65	.15	.52	50	.07
6	.89	80	.19	.84	85	.19	.52	80	.11
7	.95	60	.15	.74	85	.17	.52	50	.07
8	.95	70	.18	.74	105	.21	.58	65	.05
9	1.6	330	1.4	.63	100	.17	.52	25	.04
10	1.3	210	.74	.68	100	.18	.52	15	.02
11	1.3	280	.98	.68	90	.17	.47	15	.02
12	1.2	230	.75	.68	30	.06	.47	15	.02
13	1.1	270	.80	.68	35	.06	.52	15	.02
14	1.1	280	.83	.74	20	.04	1.1	1200	3.6
15	1.1	260	.77	.74	30	.06	.58	500	.78
16	1.3	270	.95	.68	90	.17	.58	450	.70
17	1.2	210	.68	.68	140	.26	.58	40	.06
18	1.1	280	.83	.68	175	.32	.58	45	.07
19	1.1	240	.71	.68	95	.17	.58	35	.05
20	1.1	160	.48	.63	80	.14	.54	30	.04
21	1.1	160	.48	.74	60	.12	.58	60	.09
22	1.1	180	.53	.74	50	.10	.58	300	.47
23	1.1	140	.42	.74	35	.07	.54	60	.09
24	1.1	150	.45	.74	35	.07	.58	115	.18
25	1.1	180	.53	.74	28	.06	.63	95	.16
26	1.1	220	.65	.74	17	.03	.63	80	.14
27	1.1	200	.59	.68	40	.07	.63	75	.13
28	1.2	200	.65	.68	42	.08	.63	70	.12
29	1.2	180	.58	.68	51	.09	.63	70	.12
30	1.2	100	.32	.63	51	.09	.63	60	.10
31	1.1	100	.30	.63	42	.07			
TOTAL	34.15		17.02	23.13		4.30	18.09		7.53

09306255 Yellow Creek nr White River (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				2.8	247	1.87	2.7	16	.12
2				2.8	247	1.87	2.7	49	.36
3				2.7	234	1.71	2.6	12	.08
4				2.7	234	1.71	2.4	6.5	.04
5				2.7	234	1.71	2.7	104	.76
6				2.7	221	1.61	3.0	247	2.0
7				2.6	208	1.46	3.3	234	2.08
8				2.6	208	1.46	5.3	770	11.
9	3.7	507	5.06	2.8	195	1.47	3.5	373	3.52
10	3.7	2000	19.98	2.8	195	1.47	2.8	202	1.53
11	4.0	2290	24.73	2.8	208	1.57	2.4	91	.59
12	4.2	2080	23.58	2.7	221	1.61	2.1	126	.71
13	4.6	2470	30.67	3.0	221	1.79	2.1	101	.57
14	5.3	3440	49.22	3.0	211	1.71	2.1	68	.39
15	3.2	3770	32.57	3.0	157	1.27	2.0	70	.38
16	2.8	2990	22.6	2.8	270	2.04	2.0	95	.51
17	2.6	2470	17.33	2.8	317	2.41	2.1	51	.29
18	2.7	2140	15.6	2.8	280	2.12	2.1	53	.30
19	2.7	1880	13.7	2.8	179	1.35	2.1	48	.27
20	3.2	1760	15.2	2.8	156	1.18	2.0	99	.53
21	3.2	1560	13.47	3.0	234	1.90	1.8	29	.14
22	3.0	1240	10.04	2.8	309	2.34	1.8	73	.35
23	3.0	975	7.89	2.8	190	1.44	1.5	91	.37
24	2.8	754	5.7	2.8	70	.53	1.5	91	.37
25	2.8	559	4.22	2.8	16	.12	1.5	104	.42
26	2.8	403	3.04	2.7	53	.39	1.5	91	.37
27	3.0	286	2.31	2.7	29	.21	1.5	90	.36
28	2.8	260	1.96	2.7	16	.12	1.4	117	.44
29	2.8	260	1.96	2.6	13	.09	1.4	117	.44
30	2.8	247	1.86	2.4	39	.25	1.5	91	.37
31				2.6	42	.29			
TOTAL				85.7		41.06	67.4		29.66

09306255 Yellow Creek nr White River (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.7	91	.42	1.7	195	.90	1.8	143	.69
2	1.8	104	.50	1.7	182	.84	1.7	143	.66
3	1.8	84	.41	1.7	182	.84	1.7	130	.60
4	1.8	104	.50	1.7	156	.72	1.7	143	.66
5	2.0	104	.56	1.7	156	.72	1.8	143	.69
6	2.0	104	.56	1.5	143	.58	1.8	143	.69
7	2.0	104	.56	1.4	130	.49	1.8	143	.69
8	2.1	104	.59	1.5	130	.53	2.0	156	.84
9	2.0	104	.56	1.7	117	.54	2.0	143	.77
10	1.8	104	.50	1.8	117	.57	2.0	130	.70
11	2.0	117	.63	1.7	104	.48	2.0	130	.70
12	2.1	114	.65	1.7	104	.48	2.0	130	.70
13	2.0	159	.86	1.5	104	.42	1.8	130	.63
14	2.1	169	.96	1.5	104	.42	1.6	130	.56
15	2.4	169	1.09	1.5	104	.42	1.8	130	.63
16	4.8	601	7.8	1.5	117	.47	2.1	130	.74
17	11.	606	18.	1.5	104	.42	1.8	130	.63
18	4.8	612	7.9	1.5	117	.47	1.5	130	.53
19	2.0	247	1.33	1.7	130	.60	1.5	117	.47
20	1.8	234	1.14	1.7	130	.60	1.5	117	.47
21	1.7	208	.95	1.5	130	.53	1.6	104	.45
22	1.7	221	1.01	1.5	130	.53	1.6	104	.45
23	5.1	472	6.5	1.5	117	.47	1.6	117	.50
24	3.2	351	3.03	1.5	130	.53	1.6	104	.45
25	2.0	273	1.47	1.5	130	.53	1.6	104	.45
26	1.8	247	1.2	1.5	130	.53	1.6	104	.45
27	1.8	247	1.2	1.5	130	.53	1.6	104	.45
28	1.8	234	1.14	1.5	117	.47	1.6	104	.45
29	1.7	221	1.01	1.5	130	.53	1.6	104	.45
30	1.7	221	1.01	1.5	130	.53	1.6	104	.45
31	1.7	208	.95	1.7	130	.60			
TOTAL	78.2		64.99	48.9		17.29	51.9		17.19

09306255 Yellow Creek nr White River

(Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.6	50	.22	1.8	39	.19	1.6	100	.43
2	1.6	50	.22	1.7	39	.18	1.6	100	.43
3	1.6	50	.22	1.7	46	.21	1.6	105	.45
4	1.6	50	.22	1.6	29	.13	1.8	110	.53
5	1.7	50	.23	1.6	60	.26	1.4	115	.43
6	1.7	50	.23	1.6	40	.17	1.4	120	.45
7	1.7	50	.23	1.6	100	.43	1.4	125	.47
8	1.7	50	.23	1.6	160	.69	1.2	130	.42
9	1.7	50	.23	1.4	210	.79	1.8	135	.66
10	1.6	50	.22	1.4	150	.57	2.0	140	.76
11	1.9	63	.32	1.6	100	.43	2.0	145	.78
12	1.7	95	.44	1.6	100	.43	2.4	145	.94
13	1.7	119	.55	1.6	100	.43	2.2	140	.83
14	1.7	236	1.1	1.6	100	.43	2.0	140	.76
15	1.7	105	.48	1.6	100	.43	2.0	135	.73
16	1.7	210	.96	1.6	100	.43	1.6	135	.58
17	1.6	68	.29	1.8	100	.49	1.8	130	.63
18	1.6	84	.36	1.6	100	.43	1.6	130	.56
19	1.6	105	.45	1.4	100	.38	2.0	125	.68
20	1.6	105	.45	1.8	100	.49	1.6	125	.54
21	1.7	72	.33	2.0	100	.54	2.0	120	.65
22	1.7	88	.40	1.8	100	.49	2.0	120	.65
23	1.7	171	.78	1.4	100	.38	1.6	115	.50
24	1.7	77	.35	1.4	100	.38	1.4	115	.43
25	1.6	42	.18	1.2	100	.32	1.4	110	.42
26	1.8	49	.24	1.4	100	.38	1.4	110	.42
27	1.7	59	.27	1.4	100	.38	1.4	105	.40
28	1.7	88	.40	1.2	100	.32	1.4	105	.40
29	1.8	46	.22	1.2	100	.32	1.4	100	.38
30	1.7	36	.17	1.6	100	.43	1.4	100	.38
31	1.7	52	.24				1.4	95	.36
TOTAL	52.1		11.23	41.8		11.93	51.8		17.05

09306255 Yellow Creek nr White River

(Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	95	.31	2.0	650	3.5	2.7	1200	8.9
2	1.4	90	.34	1.8	600	2.9	3.0	3750	30.
3	1.2	90	.29	2.0	650	3.5	2.8	6500	49.
4	1.6	85	.37	2.0	650	3.5	2.7	8510	62.
5	1.6	85	.37	1.8	600	2.9	2.7	3500	26.
6	1.8	75	.36	1.4	600	2.3	2.9	3190	25.
7	1.8	75	.36	1.8	600	2.9	2.6	2930	21.
8	1.8	70	.34	2.2	650	3.9	2.6	2870	20.
9	1.4	100	.38	2.4	650	4.2	2.4	2800	18.
10	1.2	100	.32	2.4	650	4.2	2.6	2720	19.
11	1.0	100	.27	2.2	683	4.1	2.6	2640	19.
12	.96	100	.26	2.2	667	4.0	2.6	2450	17.
13	1.6	100	.43	2.2	651	3.9	2.7	2190	16.
14	1.6	100	.43	2.2	635	3.8	2.6	2980	21.
15	2.0	150	.81	2.1	620	3.5	2.3	2560	16.
16	2.2	200	1.2	2.0	604	3.3	2.2	2000	12.
17	2.2	300	1.8	2.0	588	3.2	2.2	1470	8.7
18	2.4	400	2.6	1.9	572	2.9	2.1	1130	6.4
19	2.4	500	3.2	1.9	583	3.0	2.2	840	5.0
20	2.6	600	4.2	2.0	567	3.1	2.2	1300	7.7
21	2.4	650	4.2	2.0	550	3.0	2.2	1080	6.4
22	2.0	630	3.4	2.0	534	2.9	2.2	935	5.6
23	2.4	565	3.7	2.1	517	2.8	2.4	750	4.9
24	2.4	395	2.6	2.2	500	3.0	2.5	540	3.7
25	2.4	680	4.4	2.2	484	2.9	2.2	360	2.1
26	2.2	650	3.9	2.2	462	2.7	2.2	245	1.5
27	2.0	650	3.5	2.4	440	2.9	1.7	385	1.8
28	1.8	600	2.9	2.4	92	.60	2.1	1230	7.0
29	1.8	600	2.9				1.6	585	2.5
30	2.0	650	3.5				1.4	845	3.2
31	2.2	650	3.9				1.4	390	1.5
TOTAL	57.56		57.54	58.0		89.40	72.6		447.90

09306255 Yellow Creek nr White River (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.6	618	2.7	1.9	105	.54	1.4	46	.17
2	1.2	715	2.3	1.9	63	.32	1.4	40	.15
3	1.2	1300	4.2	1.8	49	.24	1.4	35	.13
4	1.2	720	2.3	1.8	47	.23	1.5	40	.16
5	1.2	660	2.1	2.0	82	.44	1.4	40	.15
6	1.3	540	1.9	2.0	56	.30	1.4	55	.21
7	1.3	330	1.2	1.9	42	.22	1.5	77	.31
8	1.3	303	1.1	1.9	42	.22	1.8	209	1.0
9	2.1	250	1.4	1.9	33	.17	1.7	99	.45
10	2.4	400	2.6	1.8	39	.19	1.6	142	.61
11	2.2	475	2.8	1.7	29	.13	1.6	34	.15
12	2.2	208	1.2	1.7	27	.12	1.5	28	.11
13	2.1	158	.90	1.7	27	.12	1.4	38	.14
14	2.2	150	.89	1.7	23	.11	1.4	39	.15
15	2.0	148	.80	1.7	21	.10	1.3	52	.18
16	2.0	120	.65	1.6	26	.11	1.3	46	.16
17	2.2	113	.67	1.6	43	.19	1.3	45	.16
18	2.2	137	.81	1.6	48	.21	1.4	41	.15
19	2.0	110	.59	1.6	49	.21	1.4	67	.25
20	2.0	101	.55	1.6	72	.31	1.4	97	.37
21	2.0	72	.39	2.0	117	.63	1.4	125	.47
22	1.9	72	.37	1.9	175	.90	1.3	120	.42
23	1.9	68	.35	1.7	193	.89	1.2	110	.36
24	1.9	56	.29	1.6	83	.36	1.2	56	.18
25	1.8	66	.32	1.4	63	.24	1.2	37	.12
26	1.9	60	.31	1.4	63	.24	1.2	45	.15
27	2.0	66	.36	1.5	66	.27	1.1	39	.12
28	1.9	100	.51	1.7	72	.33	1.1	36	.11
29	2.0	118	.64	1.7	78	.36	1.0	45	.12
30	1.9	124	.64	1.5	84	.34	.98	37	.10
31				1.4	90	.34			
TOTAL	55.1		35.84	53.2		9.38	40.78		7.31

09306255 Yellow Creek nr White River (Preliminary data - Subject to revision)

PRELIMINARY DATA SUBJECT TO REVISION **PRELIMINARY DATA SUBJECT TO REVISION**

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.92	37	.09	1.2	750	2.4	.71	221	.42
2	.98	51	.13	1.0	700	1.9	.71	240	.46
3	1.1	50	.15	.98	600	1.6	.75	261	.53
4	1.9	290	1.5	.89	500	1.2	.75	150	.30
5	1.3	100	.35	.86	400	.93	.78	47	.10
6	1.3	30	.11	.80	400	.86	.80	54	.12
7	1.1	45	.13	.80	400	.86	.83	59	.13
8	1.1	55	.16	.78	400	.84	.86	119	.28
9	1.1	70	.21	.78	400	.84	1.0	139	.38
10	1.3	85	.30	.75	400	.81	1.5	2800	11.
11	1.1	220	.65	1.2	7000	23.	2.2	1600	9.5
12	.95	140	.36	1.0	3200	8.6	1.3	600	2.1
13	.92	1100	2.7	.98	270	.71	1.2	383	1.2
14	2.8	2300	17.	.83	200	.45	1.4	367	1.4
15	2.0	2200	12.	.80	204	.44	1.2	330	1.1
16	2.3	2000	12.	.80	182	.39	1.2	330	1.1
17	2.0	1000	5.4	.80	350	.76	1.2	187	.61
18	1.6	500	2.2	.78	172	.36	1.2	63	.20
19	1.4	700	2.7	.71	120	.23	1.2	58	.19
20	1.5	1000	4.1	.78	105	.22	1.2	60	.19
21	1.4	1200	4.5	.80	117	.25	1.2	72	.23
22	1.2	700	2.3	.75	111	.22	1.2	72	.23
23	1.2	550	1.8	.71	120	.23	1.3	70	.25
24	1.2	500	1.6	.66	108	.19	1.3	39	.14
25	1.1	400	1.2	.66	90	.16	1.3	45	.16
26	1.1	800	2.4	.69	98	.18	1.2	39	.13
27	1.1	500	1.5	.66	83	.15	1.2	42	.14
28	1.1	400	1.2	.66	66	.12	1.2	48	.16
29	1.1	400	1.2	.66	74	.13	1.2	45	.15
30	1.4	22000	83.	.69	135	.25	1.2	42	.14
31	1.4	2500	9.5	.69	186	.35			
TOTAL	41.97		172.44	25.15		49.63	34.29		33.04

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306240
BOX ELDER GULCH NEAR RANGELY, COLO.

PRELIMINARY DATA SUBJECT TO REVISION

CONDUCTANCE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	MAY			JUNE			JULY					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	730	593	654	859	---	---	---	---	---
2	---	---	---	909	713	877	852	---	---	---	---	---
3	---	---	---	906	270	781	839	---	---	---	---	---
4	---	---	---	895	863	880	830	---	---	---	---	---
5	---	---	---	889	736	843	---	---	---	---	---	---
6	---	---	---	864	805	848	---	---	---	---	---	---
7	876	849	860	863	796	837	---	---	---	---	---	---
8	870	831	855	847	792	824	---	---	---	---	---	---
9	891	834	862	833	795	814	2150	941	1230	---	---	---
10	889	813	862	823	634	793	1280	---	---	---	---	---
11	883	815	857	807	765	787	1260	---	---	---	---	---
12	881	842	865	816	673	788	1250	---	---	---	---	---
13	884	833	865	813	781	797	1250	---	---	---	---	---
14	896	836	871	803	771	786	---	---	---	---	---	---
15	889	842	871	803	774	784	---	---	---	---	---	---
16	891	857	875	803	774	789	---	---	---	---	---	---
17	894	859	881	820	786	802	---	---	---	---	---	---
18	905	870	891	810	771	792	---	---	---	---	---	---
19	885	864	875	808	773	791	---	---	---	---	---	---
20	910	729	868	802	735	781	---	---	---	---	---	---
21	957	716	890	802	757	783	---	---	---	---	---	---
22	909	638	801	801	766	785	---	---	---	---	---	---
23	903	691	856	804	767	787	---	---	---	---	---	---
24	893	615	738	803	775	791	---	---	---	---	---	---
25	638	583	595	808	706	736	---	---	---	---	---	---
26	916	715	871	781	713	751	---	---	---	---	---	---
27	874	687	798	798	741	768	---	---	---	---	---	---
28	896	678	886	806	753	784	---	---	---	---	---	---
29	889	647	746	832	787	807	---	---	---	---	---	---
30	891	644	778	844	---	---	---	---	---	---	---	---
31	901	619	783	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306235
Corral Gulch Below Water Gulch, Nr Rangely, Co.

PRELIMINARY DATA SUBJECT TO REVISION CONDUCTANCE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	MARCH			APRIL			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	1390	---	---
2	---	---	---	---	---	---	---	---	---	1400	1210	1360
3	---	---	---	1078	---	---	---	---	---	1400	---	---
4	---	---	---	1126	1044	1072	---	---	---	1400	1190	1340
5	---	---	---	1144	1050	1082	---	---	---	1400	1250	1310
6	---	---	---	1163	1061	1096	---	---	---	1300	1230	1270
7	---	---	---	1108	1072	1083	---	---	---	1340	1010	1200
8	---	---	---	1119	1062	1080	---	---	---	---	---	---
9	---	---	---	1126	1066	1083	---	---	---	---	---	---
10	---	---	---	1147	1058	1088	---	---	---	---	---	---
11	---	---	---	1163	1071	1099	---	---	---	1584	1472	1537
12	---	---	---	1157	1069	1096	921	914	916	1671	1594	1639
13	958	---	---	1199	1056	1104	850	826	836	1618	1516	1557
14	960	945	953	1182	1060	1104	871	860	867	1630	1590	1621
15	969	942	957	1156	1065	1098	811	---	---	1584	1534	1557
16	984	957	967	1192	1058	1102	848	837	842	1515	1476	1499
17	993	970	976	1130	1038	1077	~~700~~ 790	780	783	1479	1427	1451
18	1007	973	983	1168	985	1061	829	819	824	1410	1346	1369
19	1023	978	993	1186	951	1066	966	854	862	1464	1424	1452
20	---	---	---	1177	979	1072	910	900	905	1415	1379	1396
21	---	---	---	1253	977	1080	992	951	970	1367	1323	1347
22	---	---	---	1223	937	1062	1002	992	997	1110	1000	1050
23	---	---	---	1116	971	1002	1046	1035	1038	1160	1070	1130
24	---	---	---	---	---	---	1078	1066	1075	1170	1070	1140
25	---	---	---	---	---	---	1119	1108	1112	1150	772	1110
26	---	---	---	---	---	---	1167	1151	1157	1140	1050	1110
27	---	---	---	---	---	---	1159	1152	1155	1120	1030	1090
28	---	---	---	---	---	---	1210	1152	1165	1100	1020	1070
29	---	---	---	---	---	---	1310	1160	1240	1080	987	1050
30	1054	1005	1025	---	---	---	1420	1350	1390	1060	981	1040
31	1053	---	---	---	---	---	1410	1310	1370	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

PRELIMINARY DATA SUBJECT TO REVISION

09306242
CORRAL GULCH NEAR RANGELY, CO.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	1180	---	---	1250	---	---	1190	---	---	1220
2	---	---	1190	---	---	1250	---	---	1180	---	---	1220
3	---	---	1200	---	---	1240	---	---	1180	---	---	1210
4	---	---	1220	---	---	1240	---	---	1180	---	---	1200
5	---	---	1240	---	---	1230	---	---	1180	---	---	1200
6	---	---	1250	---	---	1230	---	---	1170	---	---	1190
7	---	---	1270	---	---	1220	---	---	1170	---	---	1180
8	---	---	1290	---	---	1220	---	---	1170	---	---	1160
9	---	---	1300	---	---	1220	---	---	1170	---	---	1150
10	---	---	1320	---	---	1220	---	---	1170	---	---	1160
11	---	---	1340	---	---	1220	---	---	1170	---	---	1180
12	---	---	1360	---	---	1220	---	---	1180	---	---	1200
13	---	---	1380	---	---	1220	---	---	1200	---	---	1210
14	---	---	1380	---	---	1220	---	---	1210	---	---	1220
15	---	---	1390	---	---	1220	---	---	1230	---	---	1220
16	---	---	1400	---	---	1220	---	---	1240	---	---	1230
17	---	---	1390	---	---	1220	---	---	1260	---	---	1250
18	---	---	1350	---	---	1220	---	---	1270	---	---	1260
19	---	---	1300	---	---	1210	---	---	1270	---	---	1280
20	---	---	1250	---	---	1210	---	---	1270	---	---	1280
21	---	---	1200	---	---	1210	---	---	1280	~~251~~	~~233~~	1290
22	---	---	1160	---	---	1210	---	---	1290	~~250~~	~~216~~	1290
23	---	---	1120	---	---	1210	---	---	1300	~~244~~	~~205~~	1290
24	---	---	1100	---	---	1210	---	---	1290	~~243~~	~~206~~	1300
25	---	---	1120	---	---	1200	---	---	1280	~~244~~	~~208~~	1300
26	---	---	1140	---	---	1200	---	---	1270	~~246~~	~~202~~	1300
27	---	---	1160	---	---	1200	---	---	1260	~~250~~	~~217~~	1290
28	---	---	1180	---	---	1200	---	---	1250	~~259~~	~~233~~	1290
29	---	---	1210	---	---	1200	---	---	1240	~~255~~	~~228~~	1290
30	---	---	1220	---	---	1200	---	---	1240	~~256~~	~~215~~	1300
31	---	---	1240	---	---	---	---	---	1230	~~250~~	~~213~~	1300
MONTH	---	---	1250	---	---	1220	---	---	1230	---	---	1240

SUBJECT TO REVISION

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

PRELIMINARY DATA SUBJECT TO REVISION

09306242
CORRAL GULCH NEAR RANGELY, CO.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	~~250~~	~~210~~	1300	~~279~~	~~163~~	1220	1490	1340	1450✓	1590	1540	1560
2	~~252~~	~~208~~	1310	~~295~~	~~177~~	1220	1540	1440	1510	1580	1490	1550
3	~~251~~	~~213~~	1300	~~272~~	~~202~~	1220	1650	1450	1580	1600	1530	1570
4	~~249~~	~~219~~	1300	~~259~~	~~192~~	1220	1700	1300	1610	1590	1540	1570
5	~~257~~	~~211~~	1290	~~250~~	~~187~~	1210	1660	1070	1510	1460	1240	1310
6	~~258~~	~~219~~	1290	~~242~~	~~195~~	1210	1630	1550	1600	1340	1270	1300
7	~~248~~	~~215~~	1300	~~245~~	~~177~~	1210	1630	1580	1610	1370	1300	1340
8	~~247~~	~~205~~	1300	~~239~~	~~162~~	1210	2060	1570	1790	1380	1330	1360
9	~~245~~	~~210~~	1310	~~247~~	~~175~~	1200	1860	1570	1700	1400	1300	1360
10	~~252~~	~~221~~	1300	~~250~~	~~185~~	1200	1570	1530	1550	1440	1340	1390
11	~~252~~	~~208~~	1300	~~255~~	~~188~~	1200	1520	1480	1500	1450	1350	1410
12	~~250~~	~~204~~	1300	~~266~~	~~167~~	1200	1480	1460	1470	1440	1390	1430
13	~~250~~	~~214~~	1290	~~240~~	~~210~~	1200	1580	1270	1420	1450	1380	1420
14	~~240~~	~~217~~	1290	---	~~313~~	1200	1500	457	1400	1450	1390	1430
15	~~244~~	~~214~~	1280	---	~~201~~	1200	1570	1480	1500	1480	1350	1430
16	~~246~~	~~204~~	1270	---	~~229~~	1200	1720	1510	1600	1440	1140	1230
17	~~254~~	~~200~~	1270	---	~~184~~	1200	1690	1200	1490	~~1160~~	~~943~~	~~1020~~
18	~~256~~	~~210~~	1260	---	~~215~~	1200	1680	1580	1650	~~962~~	~~906~~	~~938~~ ?
19	~~253~~	~~209~~	1260	---	~~146~~	1200	1660	1630	1650	~~966~~	~~795~~	~~890~~
20	~~255~~	~~205~~	1250	~~149~~	~~110~~	1200	1650	1610	1630	~~1140~~	~~789~~	~~1000~~
21	~~257~~	~~225~~	1240	~~114~~	~~111~~	1200	1610	1550	1580	2230	1110	1550
22	~~257~~	~~219~~	1240	~~114~~	~~111~~	1190	1620	1560	1600	2090	1980	2050
23	~~255~~	~~201~~	1230	~~115~~	~~110~~	1190	1620	1570	1590	2150	~~977~~	~~1840~~
24	~~254~~	~~191~~	1230	~~114~~	~~110~~	1180	1610	1480	1550	2170	1450	1930
25	~~252~~	~~184~~	1220	~~113~~	~~111~~	1180	1610	1550	1590	2230	1540	1860
26	~~254~~	~~184~~	1220	~~117~~	~~110~~	1180	1570	1500	1540	2110	1350	1850
27	~~241~~	~~191~~	1220	~~114~~	~~110~~	1220	1580	1510	1540	1940	~~431~~	~~1710~~
28	~~258~~	~~173~~	1220	~~116~~	~~108~~	1250	1550	1500	1520	1870	1130	1650
29	---	---	---	~~119~~	~~110~~	1280	1560	1520	1550	1780	1580	1700
30	---	---	---	~~123~~	~~113~~	1330	1600	1510	1550✓	1830	1590	1720
31	---	---	---	~~1420~~	~~111~~	~~625~~	---	---	---	1750	1610	1690
MONTH	~~258~~	~~173~~	1270	~~1420~~	~~108~~	1190	2060	457	1560	2230	431	1490

SUBJECT TO REVISION

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306242
Corral Gulch nr Rangely

PRELIMINARY DATA SUBJECT TO REVISION

CONDUCTANCE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	APRIL			MAY			JUNE			JULY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1490	1340	1450	1590	1540	1560	1710	1480	1640	1250	1060	1150
2	1540	1440	1510	1580	1490	1550	1650	1510	1580	1280	1220	1260
3	1650	1450	1580	1600	1530	1570	1670	1140	1510	1310	1290	1300
4	1700	1300	1610	1590	1540	1570	1650	1420	1540	1360	1310	1340
5	1660	1070	1510	1460	1240	1310	1530	1100	1310	1390	1330	1360
6	1630	1550	1600	1340	1270	1300	1300	---	---	1390	1350	1370
7	1630	1580	1610	1370	1300	1340	1280	1040	1110	1400	---	---
8	2060	1570	1790	1380	1330	1360	1280	---	---	---	---	---
9	1860	1570	1700	1400	1300	1360	1210	---	---	---	---	---
10	1570	1530	1550	1440	1340	1390	1270	---	---	---	---	---
11	1520	1480	1500	1450	1350	1410	1290	---	---	---	---	---
12	1480	1460	1470	1440	1390	1430	1360	1050	1140	---	---	---
13	1580	1270	1420	1450	1380	1420	1280	1070	---	---	---	---
14	1500	1460	1400	1450	1390	1430	1320	1110	1230	---	---	---
15	1570	1480	1500	1480	1350	1430	1320	1110	1230	---	---	---
16	1720	1510	1600	1440	1140	1230	1430	1030	1210	---	---	---
17	1690	1200	1490	---	---	---	1270	1150	1200	---	---	---
18	1680	1580	1650	---	---	---	1270	1120	1180	---	---	---
19	1660	1630	1650	---	---	---	1260	1130	1190	---	---	---
20	1650	1610	1630	---	---	---	1410	1130	1200	---	---	---
21	1610	1550	1580	2230	1110	1550	1300	1190	1240	---	---	---
22	1620	1560	1600	2090	1980	2050	1290	1180	1220	---	---	---
23	1620	1570	1590	2150	---	---	1460	1200	1290	---	---	---
24	1610	1480	1550	2170	1450	1930	1270	1160	1210	---	---	---
25	1610	1550	1590	2230 2	1540	1860	1260	1110	1170	---	---	---
26	1570	1500	1540	2110	1350	1850	1150	1040	1100	---	---	---
27	1580	1510	1540	1940	---	---	1120	1020	1080	---	---	---
28	1550	1500	1520	1870	1130	1660	1140	1020	1080	---	---	---
29	1560	1520	1550	1780	1580	1700	1130	1010	1070	---	---	---
30	1600	1510	1550	1830	1590	1720	1160	997	---	1190	1150	1170
31	---	---	---	1750	1610	1690	---	---	---	1180	1140	1160
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306242 -
Corral Gulch nr Rangely

PRELIMINARY DATA SUBJECT TO REVISION

CONDUCTANCE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION -

	AUGUST			SEPTEMBER								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1180	1130	1160	1260	1200	1240	---	---	---	---	---	---
2	1150	1110	1130	1270	1190	1240	---	---	---	---	---	---
3	1140	1100	1120	1240	1180	1220	---	---	---	---	---	---
4	1130	1110	1120	1230	1170	1210	---	---	---	---	---	---
5	1130	1110	1120	1240	1190	1220	---	---	---	---	---	---
6	1230	1110	1130	1240	1170	1210	---	---	---	---	---	---
7	1170	1140	1150	1240	1160	1220	---	---	---	---	---	---
8	1180	1130	1160	1270	1230	1250	---	---	---	---	---	---
9	1170	1140	1160	1270	1220	1260	---	---	---	---	---	---
10	1170	1140	1160	1280	1210	1260	---	---	---	---	---	---
11	1210	1140	1160	1270	1250	1270	---	---	---	---	---	---
12	1190	1130	1160	1270	1210	1250	---	---	---	---	---	---
13	1160	1130	1150	1270	1220	1250	---	---	---	---	---	---
14	1170	1130	1150	1250			---	---	---	---	---	---
15	1160	---	---	1090	1000	1030	---	---	---	---	---	---
16	---	---	---	1220	1000	1090	---	---	---	---	---	---
17	---	---	---	1270	1090	1170	---	---	---	---	---	---
18	---	---	---	1210	1160	1190	---	---	---	---	---	---
19	---	---	---	1210	1150	1180	---	---	---	---	---	---
20	---	---	---	1190	1130	1170	---	---	---	---	---	---
21	---	---	---	1160	1110	1150	---	---	---	---	---	---
22	---	---	---	1200	1100	1150	---	---	---	---	---	---
23	---	---	---	1200	1140	1170	---	---	---	---	---	---
24	---	---	---	1260	1130	1200	---	---	---	---	---	---
25	---	---	---	1270	1220	1250	---	---	---	---	---	---
26	---	---	---	1270	1220	1250	---	---	---	---	---	---
27	---	---	---	1270	1200	1250	---	---	---	---	---	---
28	1280	1240	1260	1260	1200	1240	---	---	---	---	---	---
29	1280	1220	1250	1240	1190	1220	---	---	---	---	---	---
30	1270	1200	1240	1240	1190	1220	---	---	---	---	---	---
31	1260	1210	1240	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW C NR WHITE RIVER, CO

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3300	3000	2440
2	---	---	---	---	---	---	---	---	---	3370	2990	2420
3	---	---	---	---	---	---	---	---	---	3410	3010	2390
4	---	---	---	---	---	---	---	---	---	3520	3030	2400
5	---	---	---	---	---	---	---	---	---	3490	3060	2390
6	---	---	---	---	---	---	---	---	---	3530	3120	2380
7	---	---	---	---	---	---	---	---	---	3570	3130	2360
8	---	---	---	---	---	---	---	---	---	3610	3140	2360
9	---	---	---	---	---	---	---	---	---	3670	3110	2360
10	---	---	---	---	---	---	---	---	---	3710	3140	2350
11	---	---	---	---	---	---	---	---	---	3720	3180	2320
12	---	---	---	---	---	---	---	---	---	3820	3230	---
13	---	---	---	---	---	---	---	---	---	3820	3270	3500
14	---	---	---	---	---	---	---	---	---	4080	3310	3500
15	---	---	---	---	---	---	---	---	---	3670	3470	3500
16	---	---	---	---	---	---	---	---	---	3380	3350	3500
17	---	---	---	---	---	---	---	---	---	1960	3160	3500
18	---	---	---	---	---	---	---	---	---	2660	3100	3600
19	---	---	---	---	---	---	---	---	---	3290	3040	3600
20	---	---	---	---	---	---	---	---	---	3310	2950	3600
21	---	---	---	---	---	---	---	---	---	3290	2800	3600
22	---	---	---	---	---	---	---	---	---	3170	2730	3600
23	---	---	---	---	---	---	---	---	---	---	2670	3600
24	---	---	---	---	---	---	---	---	---	1550	2630	3600
25	---	---	---	---	---	---	---	---	---	1690	2600	3600
26	---	---	---	---	---	---	---	---	---	1830	2570	3600
27	---	---	---	---	---	---	---	---	3100	2170	2540	3600
28	---	---	---	---	---	---	---	---	3130	2800	2510	3600
29	---	---	---	---	---	---	---	---	3190	3000	2490	3600
30	---	---	---	---	---	---	---	---	3250	3010	2480	3600
31	---	---	---	---	---	---	---	---	---	3000	2460	---
MONTH	---	---	---	---	---	---	---	---	---	3150	2940	3120

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW C NR WHITE RIVER, CO

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3240	2960	2420
2	---	---	---	---	---	---	---	---	---	3300	2960	2390
3	---	---	---	---	---	---	---	---	---	3370	2980	2340
4	---	---	---	---	---	---	---	---	---	3410	2980	2360
5	---	---	---	---	---	---	---	---	---	3410	3010	2360
6	---	---	---	---	---	---	---	---	---	3500	3080	2350
7	---	---	---	---	---	---	---	---	---	3510	3100	2340
8	---	---	---	---	---	---	---	---	---	3570	3080	2340
9	---	---	---	---	---	---	---	---	---	3630	3080	2340
10	---	---	---	---	---	---	---	---	---	3600	3090	2330
11	---	---	---	---	---	---	---	---	---	3620	3100	2280
12	---	---	---	---	---	---	---	---	---	3680	3180	---
13	---	---	---	---	---	---	---	---	---	3690	3180	---
14	---	---	---	---	---	---	---	---	---	3800	3190	---
15	---	---	---	---	---	---	---	---	---	3450	3350	---
16	---	---	---	---	---	---	---	---	---	1080	3200	---
17	---	---	---	---	---	---	---	---	---	897	3100	---
18	---	---	---	---	---	---	---	---	---	1250	3070	---
19	---	---	---	---	---	---	---	---	---	3160	2990	---
20	---	---	---	---	---	---	---	---	---	3060	2840	---
21	---	---	---	---	---	---	---	---	---	3200	2750	---
22	---	---	---	---	---	---	---	---	---	3050	2690	---
23	---	---	---	---	---	---	---	---	---	---	2640	---
24	---	---	---	---	---	---	---	---	---	1490	2600	---
25	---	---	---	---	---	---	---	---	---	1610	2570	---
26	---	---	---	---	---	---	---	---	---	1730	2530	---
27	---	---	---	---	---	---	---	---	* 1030	1820	2500	---
28	---	---	---	---	---	---	---	---	3050	2640	2490	---
29	---	---	---	---	---	---	---	---	3110	2960	2470	---
30	---	---	---	---	---	---	---	---	3190	2960	2450	---
31	---	---	---	---	---	---	---	---	---	2950	2440	---
MONTH	---	---	---	---	---	---	---	---	---	897	2440	---
YEAR	MAX	3800	MIN	897	MEAN	2800						

* QW Monitor put into operation 06-27-74

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW C NR WHITE RIVER, CO

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3340	3050	2480
2	---	---	---	---	---	---	---	---	---	3420	3050	2450
3	---	---	---	---	---	---	---	---	---	3450	3060	2430
4	---	---	---	---	---	---	---	---	---	3650	3090	2430
5	---	---	---	---	---	---	---	---	---	3530	3120	2430
6	---	---	---	---	---	---	---	---	---	3550	3170	2410
7	---	---	---	---	---	---	---	---	---	3630	3180	2400
8	---	---	---	---	---	---	---	---	---	3660	3200	2380
9	---	---	---	---	---	---	---	---	---	3730	3170	2390
10	---	---	---	---	---	---	---	---	---	3760	3200	2370
11	---	---	---	---	---	---	---	---	---	3800	3270	2340
12	---	---	---	---	---	---	---	---	---	3970	3310	4900
13	---	---	---	---	---	---	---	---	---	3990	3350	---
14	---	---	---	---	---	---	---	---	---	4290	3430	---
15	---	---	---	---	---	---	---	---	---	4030	3490	---
16	---	---	---	---	---	---	---	---	---	3860	3550	---
17	---	---	---	---	---	---	---	---	---	2930	3200	---
18	---	---	---	---	---	---	---	---	---	3260	3140	---
19	---	---	---	---	---	---	---	---	---	3420	3130	---
20	---	---	---	---	---	---	---	---	---	3430	3120	---
21	---	---	---	---	---	---	---	---	---	3350	2840	---
22	---	---	---	---	---	---	---	---	---	3230	2760	---
23	---	---	---	---	---	---	---	---	---	3080	2700	---
24	---	---	---	---	---	---	---	---	---	1640	2650	---
25	---	---	---	---	---	---	---	---	---	1780	2620	---
26	---	---	---	---	---	---	---	---	---	1900	2580	---
27	---	---	---	---	---	---	---	---	3130	2600	2560	---
28	---	---	---	---	---	---	---	---	3190	2970	2540	---
29	---	---	---	---	---	---	---	---	3230	3040	2530	---
30	---	---	---	---	---	---	---	---	3290	3050	2510	---
31	---	---	---	---	---	---	---	---	---	3050	2490	---
MONTH	---	---	---	---	---	---	---	---	---	4290	3550	---

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY ~ WATER RESOURCES DIVISION

09306255
YELLOW CREEK NR WHITE RIVER

PRELIMINARY DATA SUBJECT TO REVISION

CONDUCTANCE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	JANUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	3880	1930	2660	1620	1340	1470
2	---	---	---	---	---	---	4460	2850	3570	1230	1120	1170
3	---	---	---	---	---	---	4580	2860	3430	---	---	---
4	---	---	---	---	---	---	3680	2880	3360	---	---	---
5	---	---	---	---	---	---	3840	2640	3360	---	---	---
6	---	---	---	---	---	---	3200	2490	2690	---	---	---
7				---	---	---	2700	2520	2610	---	---	---
8	4010	3900	3960	---	---	---	3980	2460	2970	---	---	---
9	3700	3580	3650	---	---	---	4320	2800	3480	---	---	---
10	3380	3310	3350	---	---	---	3520	2580	2990	---	---	---
11	3120	3050	3090	---	---	---	2810	2590	2680	---	---	---
12	2860	2780	2820	---	---	---	2910	2620	2750	---	---	---
13	2570	2540	2550	---	---	---	3120	2680	2770	---	---	---
14	2320	2280	2300	---	---	---	3040	2760	2840	---	---	---
15	2070	2030	2050	---	---	---	2920	2810	2870	---	---	---
16	1820	1770	1800	---	---	---	3070	2910	2990	---	---	---
17	4300	1550	3290	---	---	---	3690	2960	3310	---	---	---
18	3900	3660	3760	---	---	---	3650	3090	3340	---	---	---
19	3430	3310	3370	---	---	---	3330	3120	3190	---	---	---
20	3180	2990	3090	---	---	---	3340	3250	3440	---	---	---
21	2920	2830	2880	---	---	---	3430	3260	3360	---	---	---
22	---	---	---	---	---	---	3510	3380	3450	---	---	---
23	---	---	---	---	---	---	3570	3390	3480	---	---	---
24	---	---	---	---	---	---	3260	2800	2970	---	---	---
25	---	---	---	---	---	---	2890	2560	2720	---	---	---
26	---	---	---	---	---	---	2750	2350	2480	---	---	---
27	---	---	---				2320	2140	2200	---	---	---
28	---	---	---	4000	2260	2810	2120	1910	1970	---	---	---
29	---	---	---	4240	2200	2820	1920	1700	1790			
30	---	---	---	4390	2660	3200	1800	1540	1700	3790	3550	3720
31	---	---	---	3650	2780	3290	---	---	---	3880	3820	3850
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW CREEK NEAR WHITE RIVER

PRELIMINARY DATA SUBJECT TO REVISION

CONDUCTANCE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	JUNE			JULY								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEA AN
1	3970	3790	3890	4960	2950	3350	---	---	---	---	---	---
2	4160	3870	3980	4980	3120	3370	---	---	---	---	---	---
3	4110	3790	3990	4830	3230	3490	---	---	---	---	---	---
4	4110	3960	4050	4620	2990	3540	---	---	---	---	---	---
5	4260	3940	4150	5240	3070	3720	---	---	---	---	---	---
6	4350	1620	3020	5270	2740	3760	---	---	---	---	---	---
7	---	---	---		3460		---	---	---	---	---	---
8	---	---	---	5900	3530	4790	---	---	---	---	---	---
9	---	---	---	5670	4280	4750	---	---	---	---	---	---
10	---	---	---	5000	3820	4220	---	---	---	---	---	---
11	---	---	---	5040	3800	4160	---	---	---	---	---	---
12	---	---	---	5080	3680	4020	---	---	---	---	---	---
13	3940	2850	3080	4870	3680	3980	---	---	---	---	---	---
14	3120	2830	2950	4720	2890	3560	---	---	---	---	---	---
15	3160	2910	2970	3930	3280	3650	---	---	---	---	---	---
16	3220	3020	3100	3770	3630	3690	---	---	---	---	---	---
17	3220	3150	3170	---	---	---	---	---	---	---	---	---
18	3320	3260	3280	---	---	---	---	---	---	---	---	---
19	3430	3360	3400	---	---	---	---	---	---	---	---	---
20	3510	3150	3380	---	---	---	---	---	---	---	---	---
21	3900	3300	3540	---	---	---	---	---	---	---	---	---
22	4200	4040	4120	---	---	---	---	---	---	---	---	---
23	4420	4290	4360	---	---	---	---	---	---	---	---	---
24	4630	4500	4580	---	---	---	---	---	---	---	---	---
25	4800	4640	4730	---	---	---	---	---	---	---	---	---
26	5190	2680	3960	---	---	---	---	---	---	---	---	---
27	3940	2750	2900	---	---	---	---	---	---	---	---	---
28	4150	2890	3050	---	---	---	---	---	---	---	---	---
29	3520	2970	3060	---	---	---	---	---	---	---	---	---
30	4020	3060	3190	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306240
BOX ELDER GULCH NEAR RANGELY, COLO.

PRELIMINARY DATA SUBJECT TO REVISION

TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	MAY			JUNE								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	21.1	4.4	11.0	---	---	---	---	---	---
2	---	---	---	20.5	4.7	11.2	---	---	---	---	---	---
3	---	---	---	20.1	5.5	10.8	---	---	---	---	---	---
4	---	---	---	21.8	6.5	11.7	---	---	---	---	---	---
5	---	---	---	23.6	4.8	12.3	---	---	---	---	---	---
6	---	---	---	23.5	6.0	12.7	---	---	---	---	---	---
7	12.2	1.9	5.7	17.1	7.7	11.1	---	---	---	---	---	---
8	23.1	2.9	10.2	14.2	6.9	10.4	---	---	---	---	---	---
9	26.1	2.0	11.4	18.0	3.8	8.6	---	---	---	---	---	---
10	29.7	1.9	13.1	11.9	4.5	7.6	---	---	---	---	---	---
11	29.3	2.9	13.1	22.1	2.8	10.6	---	---	---	---	---	---
12	16.6	2.4	8.7	23.1	4.4	11.5	---	---	---	---	---	---
13	27.1	4.7	13.4	24.9	5.5	12.9	---	---	---	---	---	---
14	30.6	4.2	14.5	24.3	8.1	14.0	---	---	---	---	---	---
15	29.1	5.0	14.7	24.8	5.6	13.3	---	---	---	---	---	---
16	23.2	6.7	13.8	22.4	8.0	12.8	---	---	---	---	---	---
17	23.6	6.7	13.9	17.0	7.2	10.7	---	---	---	---	---	---
18	17.3	7.7	12.0	12.5	4.4	9.1	---	---	---	---	---	---
19	15.4	6.9	11.6	19.5	2.6	9.6	---	---	---	---	---	---
20	16.6	8.0	11.9	16.3	3.5	8.4	---	---	---	---	---	---
21	12.8	2.0	7.0	17.3	3.2	9.3	---	---	---	---	---	---
22	16.5	3.6	7.9	23.6	4.3	12.1	---	---	---	---	---	---
23	18.0	2.5	8.6	26.6	4.2	14.1	---	---	---	---	---	---
24	21.5	3.9	10.9	22.8	4.5	12.2	---	---	---	---	---	---
25	20.1	3.6	10.1	17.1	4.2	11.6	---	---	---	---	---	---
26	22.4		9.3	27.3	.4	11.7	---	---	---	---	---	---
27	14.1	4.6	8.6	27.3	3.2	13.6	---	---	---	---	---	---
28	8.9	4.6	6.8	31.4	5.8	15.6	---	---	---	---	---	---
29	13.9	2.1	6.8	31.0	5.7	14.8	---	---	---	---	---	---
30	19.5	2.0	9.5	---	---	---	---	---	---	---	---	---
31	16.0	4.8	9.9	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

PRELIMINARY DATA SUBJECT TO REVISION

09306235
Corral Gulch Below Water Gulch, Nr Rangely, Co.

TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	MARCH			APRIL			MAY			JUNE		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	36.7	14.1	22.4
2	---	---	---	---	---	---	---	---	---	36.3	14.8	22.4
3	---	---	---	4.4	.9	1.6	---	---	---	30.6	15.5	21.3
4	---	---	---	8.2	0	2.9	---	---	---	35.0	16.8	22.1
5	---	---	---	9.3	---	---	---	---	---	39.4	14.8	23.8
6	---	---	---	10.3	.8	4.4	---	---	---	38.1	16.3	24.1
7	---	---	---	5.3	---	---	---	---	---	28.7	19.1	22.6
8	---	---	---	5.9	---	---	---	---	---	27.7	17.3	22.3
9	---	---	---	6.2	0	1.7	---	---	---	17.3	15.6	16.5
10	---	---	---	8.6	---	---	---	---	---	---	---	---
11	---	---	---	9.8	---	---	---	---	---	---	---	---
12	---	---	---	9.8	---	---	---	---	---	---	---	---
13	1.8	---	---	12.6	---	---	---	---	---	---	---	---
14	1.9	0	1.6	11.8	---	---	---	---	---	---	---	---
15	2.8	0	1.4	10.2	1.8	5.1	---	---	---	---	---	---
16	3.8	.8	2.1	12.7	---	---	---	---	---	---	---	---
17	4.3	1.8	2.5	8.6	---	---	---	---	---	---	---	---
18	5.2	---	---	28.5	---	---	---	---	---	---	---	---
19	6.2	---	---	28.1	---	---	---	---	---	---	---	---
20	---	---	---	28.1	---	---	---	---	---	---	---	---
21	---	---	---	17.0	---	---	---	---	---	---	---	---
22	---	---	---	15.0	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	24.5	13.0	19.6	---	---	---
30	3.9	0	.6	---	---	---	37.6	10.4	20.6	---	---	---
31	3.2	0	1.1	---	---	---	30.0	14.3	20.6	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

PRELIMINARY DATA SUBJECT TO REVISION

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

PRELIMINARY DATA SUBJECT TO REVISION

09306235
Corral Gulch Below Water Gulch, Nr Rangely, Co.

TEMPERATURE • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	AUGUST			SEPTEMBER								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.3	---	---	---	---	---	---	---	---
2	---	---	---	23.4	5.8	12.2	---	---	---	---	---	---
3	---	---	---	23.8	---	---	---	---	---	---	---	---
4	---	---	---	22.6	5.5	11.7	---	---	---	---	---	---
5	---	---	---	23.1	4.0	11.2	---	---	---	---	---	---
6	---	---	---	23.5	4.0	11.5	---	---	---	---	---	---
7	---	---	---	23.9	5.1	12.2	---	---	---	---	---	---
8	---	---	---	15.7	8.5	10.4	---	---	---	---	---	---
9	---	---	---	19.8	8.1	11.6	---	---	---	---	---	---
10	---	---	---	19.5	8.2	11.9	---	---	---	---	---	---
11	---	---	---	14.1	6.6	10.0	---	---	---	---	---	---
12	21.9	12.5	16.5	21.3	6.3	11.2	---	---	---	---	---	---
13	22.6	10.3	15.1	18.3	7.5	10.2	---	---	---	---	---	---
14	21.5	10.2	13.9	21.4	6.0	11.4	---	---	---	---	---	---
15	25.9	---	---	22.3	5.6	11.4	---	---	---	---	---	---
16	24.3	10.0	15.2	19.0	6.4	11.0	---	---	---	---	---	---
17	27.9	9.6	17.1	20.8	6.2	11.3	---	---	---	---	---	---
18	29.4	12.6	18.6	19.1	---	---	---	---	---	---	---	---
19	40.0	12.9	33.1	19.1	1.9	8.0	---	---	---	---	---	---
20	27.4	13.2	22.9	16.6	1.8	6.8	---	---	---	---	---	---
21	30.2	14.7	22.5	17.3	---	---	---	---	---	---	---	---
22	31.3	11.2	23.6	19.4	---	---	---	---	---	---	---	---
23	37.9	9.6	20.5	20.3	2.3	8.8	---	---	---	---	---	---
24	25.5	8.1	15.0	20.3	2.6	8.9	---	---	---	---	---	---
25	24.4	7.0	14.1	19.6	2.5	8.8	---	---	---	---	---	---
26	29.1	8.6	15.6	18.5	4.2	9.2	---	---	---	---	---	---
27	19.4	7.6	12.1	18.8	2.8	8.4	---	---	---	---	---	---
28	23.5	5.9	12.3	19.1	1.9	8.1	---	---	---	---	---	---
29	23.6	4.5	11.8	18.6	3.0	8.5	---	---	---	---	---	---
30	24.0	4.4	11.6	16.8	2.0	7.3	---	---	---	---	---	---
31	23.1	4.1	11.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

PRELIMINARY DATA SUBJECT TO REVISION

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306242
CORRAL GULCH NEAR RANGELY

PRELIMINARY DATA SUBJECT TO REVISION

TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	JANUARY			FEBRUARY			MARCH			APRIL		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.0	5.0	7.5	11.5	1.5	8.0	6.3	4.0	5.0
2	---	---	---	9.0	5.0	8.0	12.5	2.0	9.0	9.7	4.1	6.0
3	---	---	---	9.5	6.0	8.5	11.5	5.5	8.5	11.0	3.7	5.8
4	---	---	---	9.5	6.5	9.0	10.5	4.5	7.0	13.2	4.1	7.0
5	---	---	---	10.0	6.0	9.0	10.0	3.5	8.0	22.6	4.3	8.1
6	---	---	---	10.0	6.5	9.0	9.5	4.5	8.0	13.4	4.0	7.8
7	---	---	---	9.5	5.5	8.0	9.5	2.5	7.5	11.0	4.2	5.8
8	---	---	---	9.0	5.5	8.0	9.0	2.0	6.0	11.0	3.9	6.2
9	---	---	---	9.0	5.5	8.0	9.5	2.0	6.5	11.5	3.7	6.2
10	---	---	---	9.5	7.0	8.5	10.0	3.5	7.5	14.8	3.6	7.5
11	---	---	---	9.5	5.5	8.5	10.5	4.0	7.5	13.1	5.3	8.1
12	---	---	---	9.5	5.0	8.0	11.0	2.5	7.5	14.5	5.3	8.4
13	---	---	---	9.5	5.0	7.5	9.0	6.0	8.0	16.1	3.5	7.7
14	---	---	---	8.5	6.5	7.5	---	---	---	13.6	4.2	8.0
15	---	---	---	8.0	6.0	8.0	---	---	---	12.1	5.2	7.9
16	---	---	---	9.0	5.0	7.5	---	---	---	14.6	5.1	8.5
17	---	---	---	10.0	4.5	8.5	---	---	---	11.3	3.8	7.1
18	---	---	---	10.0	5.5	8.5	---	---	---	13.3	3.5	7.4
19	---	---	---	10.0	5.5	8.5	---	---	---	13.1	3.9	7.7
20	---	---	---	10.0	5.5	8.5	---	---	---	12.8	5.6	8.3
21	---	---	---	10.0	7.0	9.0	---	---	---	16.5	5.1	9.1
22	9.0	5.5	8.0	10.0	6.5	8.0	---	---	---	16.1	5.3	9.2
23	8.0	4.5	7.0	10.0	5.0	8.0	---	---	---	15.3	5.7	9.6
24	8.5	5.0	7.0	10.5	3.5	8.5	---	---	---	16.9	5.5	9.7
25	8.5	5.0	7.0	10.5	3.0	8.0	---	---	---	15.2	5.8	9.1
26	8.5	4.5	7.5	10.5	3.0	8.0	---	---	---	14.2	6.7	9.1
27	9.0	6.0	8.0	8.5	3.5	7.0	---	---	---	13.5	6.0	8.0
28	9.5	7.5	9.0	10.0	1.5	7.0	---	---	---	12.1	4.9	7.5
29	9.5	7.0	8.5	---	---	---	---	---	---	11.8	4.7	7.8
30	9.5	6.0	8.0	---	---	---	8.6	---	---	15.7	4.0	8.7
31	9.0	5.5	8.0	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306242
CORRAL GULCH NEAR RANGELY

PRELIMINARY DATA SUBJECT TO REVISION

TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	MAY			JUNE			JULY			AUGUST		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.8	3.3	8.7	19.8	7.0	12.5	18.5	8.9	12.0	17.8	8.7	12.0
2	14.9	5.9	9.7	20.0	7.0	12.4	16.1	7.8	10.7	17.5	7.1	11.3
3	16.7	6.4	10.4	19.6	7.5	11.9	14.7	8.7	11.1	17.5	7.1	11.3
4	13.5	6.8	9.5	19.4	7.8	12.2	15.1	9.0	10.8	16.8	7.2	11.2
5	13.9	4.5	7.8	21.3	6.5	12.2	16.1	8.7	11.3	16.0	7.6	11.1
6	13.8	4.5	7.8	20.9	5.7	11.8	15.8	8.8	11.5	15.8	8.2	11.3
7	10.7	4.9	7.8	16.3	7.2	10.2	---	8.8	---	16.0	8.7	11.3
8	16.5	5.2	9.3	12.9	6.3	9.5	---	---	---	15.9	7.8	10.7
9	19.1	3.5	9.9	16.6	3.7	8.2	---	---	---	15.5	8.0	10.8
10	21.6	3.6	11.2	10.6	3.8	6.6	---	---	---	15.9	8.3	10.8
11	23.2	4.2	12.2	18.8	2.1	8.7	---	---	---	14.6	9.7	11.3
12	16.7	4.2	9.4	17.5	3.2	9.0	---	---	---	15.9	8.5	11.2
13	24.2	5.8	13.1	18.1	4.9	10.3	---	---	---	14.1	8.8	10.9
14	24.9	4.9	13.6	17.5	7.2	10.9	---	---	---	15.2	8.7	10.9
15	24.4	5.4	13.4	17.6	5.3	10.5	---	---	---	---	8.5	---
16	17.8	7.1	11.8	16.6	7.6	10.4	18.0	8.2	12.0	---	8.7	---
17	19.9	7.6	12.6	13.6	7.0	9.3	18.3	8.0	12.1	---	---	---
18	16.7	8.2	11.2	10.6	6.1	8.5	18.0	8.2	12.0	---	---	---
19	18.1	6.5	11.6	15.3	4.4	8.7	14.9	9.1	11.4	---	---	---
20	17.5	7.9	11.5	15.1	5.3	8.6	17.0	9.3	12.2	---	---	---
21	17.3	5.8	11.4	15.8	5.1	9.2	15.5	9.2	10.8	---	---	---
22	18.5	9.5	12.4	16.8	6.1	10.4	---	---	---	---	---	---
23	20.6	9.0	13.3	17.1	6.4	11.2	---	---	---	---	---	---
24	22.0	9.9	14.9	17.5	6.9	11.2	---	---	---	---	---	---
25	21.6	10.3	14.6	16.0	8.3	11.2	---	---	---	---	---	---
26	21.8	7.7	13.4	20.1	6.9	12.2	---	---	---	---	---	---
27	16.0	9.2	12.1	19.0	7.9	12.5	---	---	---	---	---	---
28	11.8	9.0	10.1	20.1	8.7	13.1	---	---	---	13.6	9.9	11.2
29	14.9	7.1	10.0	19.1	8.6	12.9	---	---	---	14.0	9.3	11.2
30	20.1	5.7	12.1	19.1	8.4	12.8	17.8	9.6	13.8	14.4	9.3	11.4
31	19.0	7.7	12.2	---	---	---	17.3	8.9	12.2	14.3	9.6	11.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306242
CORRAL GULCH NEAR RANGELY

PRELIMINARY DATA SUBJECT TO REVISION TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975 **PRELIMINARY DATA SUBJECT TO REVISION**

	SEPTEMBER											
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.9	10.1	11.8	---	---	---	---	---	---	---	---	---
2	14.6	10.6	12.0	---	---	---	---	---	---	---	---	---
3	14.7	10.4	12.0	---	---	---	---	---	---	---	---	---
4	14.8	10.7	12.1	---	---	---	---	---	---	---	---	---
5	14.9	10.6	12.2	---	---	---	---	---	---	---	---	---
6	15.1	10.6	12.3	---	---	---	---	---	---	---	---	---
7	15.7	11.0	12.5	---	---	---	---	---	---	---	---	---
8	13.9	11.7	12.4	---	---	---	---	---	---	---	---	---
9	14.9	11.5	12.5	---	---	---	---	---	---	---	---	---
10	15.5	11.7	12.7	---	---	---	---	---	---	---	---	---
11	13.7	11.4	12.2	---	---	---	---	---	---	---	---	---
12	15.3	11.3	12.5	---	---	---	---	---	---	---	---	---
13	14.5	11.5	12.4	---	---	---	---	---	---	---	---	---
14	14.7	11.0	12.3	---	---	---	---	---	---	---	---	---
15	16.5	10.7	12.8	---	---	---	---	---	---	---	---	---
16	15.2	10.9	12.6	---	---	---	---	---	---	---	---	---
17	15.9	10.9	12.8	---	---	---	---	---	---	---	---	---
18	15.4	10.5	12.3	---	---	---	---	---	---	---	---	---
19	15.2	9.4	11.7	---	---	---	---	---	---	---	---	---
20	14.6	9.4	11.3	---	---	---	---	---	---	---	---	---
21	14.7	9.3	11.3	---	---	---	---	---	---	---	---	---
22	15.2	9.3	11.5	---	---	---	---	---	---	---	---	---
23	15.1	9.4	11.6	---	---	---	---	---	---	---	---	---
24	15.1	9.6	11.7	---	---	---	---	---	---	---	---	---
25	15.2	9.6	11.7	---	---	---	---	---	---	---	---	---
26	14.9	9.8	11.7	---	---	---	---	---	---	---	---	---
27	14.9	9.7	11.7	---	---	---	---	---	---	---	---	---
28	15.1	9.4	11.6	---	---	---	---	---	---	---	---	---
29	15.0	9.8	11.7	---	---	---	---	---	---	---	---	---
30	14.7	9.8	11.5	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW CREEK NEAR WHITE RIVER, CO.

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	26.5	10.0	17.5	29.0	13.0	20.5	24.5	8.5	15.5
2	---	---	---	26.0	9.5	17.5	26.0	14.0	19.0	24.0	8.0	14.5
3	---	---	---	29.5	12.5	20.0	27.0	14.0	19.5	23.5	4.5	13.0
4	---	---	---	25.5	8.0	17.5	28.5	13.0	20.5	24.5	4.0	13.5
5	---	---	---	24.5	9.5	18.0	28.0	12.5	20.0	23.5	7.5	14.5
6	---	---	---	24.5	12.5	19.0	27.5	10.0	18.5	23.5	5.5	14.0
7	---	---	---	24.5	14.0	19.0	25.5	14.0	19.5	25.0	5.0	14.0
8	---	---	---	21.5	12.5	17.0	24.0	12.0	17.5	23.0	6.5	14.0
9	---	---	---	26.5	11.0	19.0	17.0	12.5	14.5	25.0	8.0	15.5
10	---	---	---	26.0	12.0	19.0	24.0	8.5	15.5	23.0	10.0	16.0
11	---	---	---	26.5	11.0	19.0	24.0	9.0	16.5	18.5	9.0	13.0
12	---	---	---	27.0	10.5	19.0	20.5	10.5	16.0	24.5	6.5	8.5
13	---	---	---	28.0	12.0	20.0	25.0	11.5	17.5	---	---	---
14	---	---	---	28.5	13.0	21.0	24.0	10.5	17.5	---	---	---
15	---	---	---	25.5	16.0	20.0	28.5	12.0	24.0	---	---	---
16	---	---	---	26.5	14.5	21.0	28.5	10.0	18.5	---	---	---
17	---	---	---	24.0	15.0	19.5	27.5	10.5	18.5	---	---	---
18	---	---	---	29.0	17.0	20.5	28.0	8.5	18.0	---	---	---
19	---	---	---	33.5	15.0	23.0	22.0	11.5	16.5	---	---	---
20	---	---	---	34.0	16.0	23.5	25.0	11.5	17.0	---	---	---
21	---	---	---	30.5	16.0	22.0	26.5	7.5	15.5	---	---	---
22	---	---	---	33.5	15.0	23.0	25.0	5.5	14.5	---	---	---
23	---	---	---	27.0	14.5	19.0	27.0	5.5	15.0	---	---	---
24	---	---	---	28.0	14.5	20.0	26.5	6.0	15.5	---	---	---
25	---	---	---	32.0	13.0	21.5	26.5	7.0	16.0	---	---	---
26	---	---	---	30.0	13.0	20.0	26.5	7.5	16.0	---	---	---
27	---	---	---	32.0	14.0	21.5	27.0	7.5	16.5	---	---	---
28	28.0	7.0	17.0	31.0	13.5	20.5	27.0	8.0	16.5	---	---	---
29	29.0	8.0	18.0	29.5	13.0	20.5	26.5	8.5	16.5	---	---	---
30	28.5	9.0	18.5	27.0	12.5	19.5	25.0	7.5	15.5	---	---	---
31	---	---	---	28.5	13.0	20.0	24.5	7.0	15.5	---	---	---
MONTH	---	---	---	34.0	8.0	20.0	29.0	5.5	17.5	---	---	---

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW CREEK NR WHITE RIVER

TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

PRELIMINARY DATA SUBJECT TO REVISION

	JANUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.4	0	1.9	---	---	---
2	---	---	---	---	---	---	8.8	0	1.6	---	---	---
3	---	---	---	---	---	---	12.8	0	3.6	---	---	---
4	---	---	---	---	---	---	14.5	0	6.1	---	---	---
5	---	---	---	---	---	---	18.5	0	7.9	---	---	---
6	---	---	---	---	---	---	17.3	.4	8.1	---	---	---
7	---	---	---	---	---	---	8.7	1.4	4.6	---	---	---
8	3.4	2.7	3.1	---	---	---	13.4	.1	4.5	---	---	---
9	4.3	2.3	3.1	---	---	---	12.7	0	5.0	---	---	---
10	2.8	1.7	2.2	---	---	---	17.9	.3	7.5	---	---	---
11	2.5	1.9	2.2	---	---	---	16.8	3.4	8.6	---	---	---
12	2.7	1.9	2.3	---	---	---	17.8	2.4	8.2	---	---	---
13	3.1	2.4	2.6	---	---	---	21.7	.3	9.2	---	---	---
14	3.3	2.2	2.5	---	---	---	17.6	1.1	8.8	---	---	---
15	4.0	2.2	2.8	---	---	---	16.2	3.7	9.0	---	---	---
16	4.6	2.9	3.6	---	---	---	19.1	2.2	8.9	14.7	0	6.8
17	5.7	2.3	4.4	---	---	---	12.8	.1	7.5	17.9	2.2	9.1
18	5.2	4.4	4.8	---	---	---	14.7	1.4	7.2	15.2	2.5	7.4
19	4.5	3.3	4.0	---	---	---	18.9	.5	8.9	14.3	1.1	7.7
20	3.1	1.8	2.5	---	---	---	18.3	3.0	9.6	14.0	2.2	6.8
21	2.2	1.2	1.8	---	---	---	21.2	1.8	10.3	7.3	0	3.8
22	---	---	---	---	---	---	22.4	3.7	11.2	12.8	1.5	4.9
23	6.9	---	---	---	---	---	21.0	4.0	11.6	19.8	0	8.8
24	---	---	---	---	---	---	22.0	2.8	11.3	25.6	3.0	12.9
25	---	---	---	---	---	---	19.1	1.7	9.2	27.2	6.4	14.6
26	---	---	---	---	---	---	12.1	3.1	6.4	28.8	1.4	13.3
27	---	---	---	---	---	---	12.7	1.6	5.8	23.4	7.6	14.2
28	---	---	---	3.0	0	.4	15.2	.5	6.0	11.8	8.4	9.9
29	---	---	---	6.7	0	.5	12.7	---	---	---	---	---
30	---	---	---	9.9	0	3.1	14.3	---	---	27.9	13.2	21.8
31	---	---	---	11.3	0	3.2	---	---	---	26.6	9.3	16.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

09306255
YELLOW CREEK NR WHITE RIVER

PRELIMINARY DATA SUBJECT TO REVISION

TEMPERATURE , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PRELIMINARY DATA SUBJECT TO REVISION

	JUNE			JULY								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	29.3	9.1	18.3	45.0	19.9	31.8	---	---	---	---	---	---
2	28.0	10.1	18.3	---	21.4	---	---	---	---	---	---	---
3	25.0	11.9	18.3	---	23.6	---	---	---	---	---	---	---
4	29.4	12.4	20.1	---	26.1	---	---	---	---	---	---	---
5	30.5	10.6	19.0	---	25.1	---	---	---	---	---	---	---
6	---	12.1	---	---	4.8	---	---	---	---	---	---	---
7	---	---	---	---	27.6	---	---	---	---	---	---	---
8	---	---	---	---	33.3	---	---	---	---	---	---	---
9	---	---	---	---	34.1	---	---	---	---	---	---	---
10	---	---	---	---	29.3	---	---	---	---	---	---	---
11	---	---	---	---	28.5	---	---	---	---	---	---	---
12	---	---	---	44.6	27.1	31.9	---	---	---	---	---	---
13	28.3	17.1	23.3	41.8	27.6	31.4	---	---	---	---	---	---
14	28.3	12.9	19.8	42.2	20.0	26.9	---	---	---	---	---	---
15	29.0	10.4	18.8	31.6	24.5	28.0	---	---	---	---	---	---
16	26.3	12.5	17.6	30.1	28.1	29.0	---	---	---	---	---	---
17	20.5	10.7	14.5	---	---	---	---	---	---	---	---	---
18	14.4	9.2	12.3	---	---	---	---	---	---	---	---	---
19	21.6	5.7	12.7	---	---	---	---	---	---	---	---	---
20	16.5	6.9	11.8	---	---	---	---	---	---	---	---	---
21	22.9	6.7	13.6	---	---	---	---	---	---	---	---	---
22	23.3	7.2	15.4	---	---	---	---	---	---	---	---	---
23	24.9	8.4	16.6	---	---	---	---	---	---	---	---	---
24	40.6	9.0	17.3	---	---	---	---	---	---	---	---	---
25	20.5	7.4	12.7	---	---	---	---	---	---	---	---	---
26	42.6	---	---	---	---	---	---	---	---	---	---	---
27	41.4	19.0	29.9	---	---	---	---	---	---	---	---	---
28	44.2	19.8	30.7	---	---	---	---	---	---	---	---	---
29	43.0	19.3	29.9	---	---	---	---	---	---	---	---	---
30	44.6	18.3	30.7	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR												

ALLUVIAL AQUIFERS

SECTION 1.2.3

Wet Chemical and Spectrographic Analyses, Alluvial Test Holes

EXPLANATION -- WATER QUALITY COMPUTER OUTPUT SHEETS

1. Core Hole Description Data

   Job # 741-40-

   Assigned project number for Rio Blanco Oil Shale Project by Wright Water Engineers, Inc.

   Location

   X = Coordinates east in feet, 7200 foot

   Datum of the Colorado State Coordinate System

   Y = Coordinates, north in feet, 7200 foot

   Datum of the Colorado State Coordinate System

   Z = Elevation in feet above sea of the core hole at ground surface

   Date Drill Compl.-

   The date when drilling was completed on the Core Hole.

   Conv. to Monitor-

   Date the Core Hole was converted to a Monitor Hole.

   Aquifer 1:

   Depth in feet to the top and bottom of the upper aquifer from ground surface.

   Aquifer 2:

   Depth in feet to the top and bottom of the lower aquifer from ground surface.

2. Sample Description Data

   Date-

   Date water sample was collected.

   Depth-

   Depth for Method 1: Total depth sample was collected during drilling.

   Depth for Method 2: See aquifer 1 or 2.

   Depth for Method 3: The static water level of the hole when sampled.

   Temp.-

   Field temperature of sample (°F)

   Lab ID-

   Designation number assigned by the analyzing laboratory.

Method

0. Drilling soap sample
1. Drilling program sample
2. Pumping test program sample
3. Monitoring program sample

3A. Monitoring program sample, not representative of aquifer conditions

Aquif. Loc.

U Sample from upper aquifer during drilling, pumping or monitoring

L Sample from lower aquifer during pumping test or monitoring

C Sample combination of upper and lower aquifer during drilling

A Sample from alluvial aquifer

3. Wet -- Wet Chemical Analysis

Values are in milligrams per liter, except for:

Gross Alpha-- picocuries per liter

Gross Beta -- picocuries per liter

pH -- standard pH values

Conductance-- micromhos per centimeter

Negative values indicate less than minimum detectable limit indicated

0.0 value - constituent not tested for

**** - not analyzed for using wet chemical analysis

4. Spectrographic - spectrographic analysis of 67 elements

All values are in milligrams per liter

0.0 means less than minimum detectable amount

99999.000 means major amount

***** is used in Water Quality Analysis Summary to indicate an element has not been analyzed above the minimum detectable limit

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-7

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	33175	41575	42975	51475	52975	61175	63075	71575	80575	82775	101075
DEPTH	0.0	20.70	21.04	21.74	21.85	22.10	22.36	24.88	25.46	24.28	24.80
TEMP	47.3	47.1	49.1	47.8	49.3	49.6	52.3	50.0	50.0	54.1	51.8
LAB ID											
LAB NUM	9023	184	185	436	437	898	2260	1542	2048	2764	3442
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A
WET											
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.400	-0.100	0.200	0.200	0.400	0.0	0.300	-0.100	0.500	-0.100
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010
BICARBONAT	480.000	490.000	455.000	460.000	410.000	430.000	435.000	445.000	470.000	470.000	450.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	77.000	90.000	84.000	80.000	120.000	98.000	130.000	98.000	90.000	44.000	140.000
CARBONATE	-0.100	-0.100	-0.100	-0.100	24.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	12.000	14.000	9.600	17.000	7.000	14.000	6.800	6.900	8.200	12.000	14.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	0.100	-0.100	0.100
FLUORIDE	0.200	0.400	0.400	0.400	0.400	0.400	0.200	0.400	0.600	0.400	0.700
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	4.800	0.300	9.100	15.000	8.300	0.300	12.000	9.500	8.100	0.600
LEAD	0.020	0.100	0.070	0.500	0.200	0.100	0.100	0.040	0.090	0.500	0.040
MAGNESIUM	45.000	47.000	35.000	56.000	7.300	52.000	29.000	57.000	59.000	85.000	37.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	3.900	4.800	5.200	4.700	0.200	4.500	3.900	3.900	4.900	3.500	3.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	27.000	23.000	22.000	26.000	28.000	26.000	27.000	30.000	29.000	29.000	31.000
SODIUM	160.000	145.000	155.000	75.000	190.000	100.000	115.000	90.000	145.000	130.000	110.000
SULFATE	280.000.	275.000	270.000	150.000	300.000	250.000	280.000	250.000	330.000	285.000	280.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.200	-0.100	0.200	0.300	0.300	0.300	0.600	0.200	0.800	0.200
GROS ALPHA	0.0	6.300	7.400	5.600	5.000	6.000	4.800	4.100	6.000	5.100	5.500
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.000	0.0
HARDNESS	375.000	420.000	355.000	430.000	330.000	460.000	450.000	480.000	470.000	460.000	500.000
PH	6.400	6.400	6.400	6.600	6.100	6.000	5.800	6.800	6.800	6.600	6.300
CONDUCTANC	990.000	1120.000	1050.000	1120.000	1065.000	1140.000	1440.000	1104.000	1056.000	1130.000	960.000
DIS SOLIDS	840.000	840.000	810.000	640.000	890.000	760.000	800.000	765.000	905.000	820.000	840.000
MANGANESE	-0.050	-0.050	1.900	0.100	0.400	0.500	0.100	0.200	1.000	0.600	0.200
ALKALINITY	395.000	400.000	375.000	395.100	360.000	350.000	355.000	365.000	385.000	385.000	370.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.100	2.900	1.900	-0.010	-0.010	0.100	0.070	-0.010	0.020	9.600	-0.010
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.100	-0.010	-0.010	-0.010	-0.010
NICKEL	0.030	0.040	0.020	0.020	0.040	0.060	0.010	0.030	0.030	0.050	0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	19.000	9.000	14.000	15.000	35.000	8.000	28.000	28.000	18.000	30.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-7

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.100	0.500	0.100	0.050	0.100	0.050	0.100	0.100	0.100	0.100	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.001	0.001	0.001	0.010	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.500	0.200	0.500	0.200	0.500	0.200	0.500	0.500	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	10.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.001	0.010	0.010	0.010	0.020	0.001	0.001	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.050	0.050	0.010	0.100	0.050	0.050	0.020	0.050	0.010	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001
LITHIUM	0.010	0.001	0.001	0.0	0.001	0.001	0.0	0.010	0.010	0.0	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	5.000
MANGANESE	0.010	0.005	0.010	0.001	0.010	0.001	0.001	0.050	0.001	0.001	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.050	0.0	0.005	0.001	0.010	0.002	0.0	0.001	0.0	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	1.000	2.000	0.100	1.000	0.100	1.000	1.000	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.100	0.0	0.0	0.100	0.200	0.0	0.100	0.300	0.0	0.200
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	5.000	5.000	2.000	5.000	2.000	2.000	10.000	2.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0
SODIUM	99999.000	5.000	10.000	2.000	10.000	5.000	10.000	99999.000	99999.000	99999.000	99999.000

NNN-J23-0000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-7

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.0	0.001	0.010	0.010	0.005	0.001	0.020	0.001	0.005	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
ZINC	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	32975	41575	42975	51475	52975	61175	63075	71575	80575	82875	100975
DEPTH	37.14	39.06	38.92	37.88	30.72	29.00	24.95	29.82	31.31	31.99	35.33
TEMP	46.2	47.8	57.2	50.5	49.6	51.8	52.0	51.4	50.6	48.0	47.7
LAB ID											
LAB NUM	9024	186	187	438	439	899	2261	1543	2049	2765	3443
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A
WET											
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	1.000	0.600	0.200	0.900	0.200	0.400	0.0	0.200	-0.100	0.200	-0.100
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	495.000	510.000	510.000	440.000	370.000	380.000	435.000	450.000	460.000	460.000	430.000
CADMIUM	-0.010	-0.010	-0.010	0.030	0.010	0.010	0.040	0.020	-0.010	-0.010	-0.010
CALCIUM	64.000	90.000	60.000	85.000	85.000	110.000	80.000	88.000	77.000	39.000	90.000
CARBONATE	-0.100	-0.100	-0.100	15.000	36.000	27.000	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	8.300	14.000	11.000	14.000	14.000	14.000	8.200	34.000	9.500	15.000	21.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.010	-0.100	0.100	-0.100	-0.100	0.300	0.100	-0.100
FLUORIDE	0.300	0.400	0.0	0.400	0.300	0.300	0.200	0.400	0.600	0.400	0.700
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	3.100	9.200	28.000	6.500	8.300	15.800	3.100	8.800	0.900
LEAD	0.040	0.070	0.200	0.200	0.300	0.200	0.060	0.070	0.200	0.300	0.060
MAGNESIUM	40.000	26.000	35.000	16.000	31.000	35.000	60.000	52.000	56.000	71.000	57.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	1.000	5.100	3.400	5.000	0.100	4.200	4.900	3.400	3.300	3.400	3.700
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	33.000	25.000	27.000	29.000	27.000	27.000	32.000	31.000	27.000	30.000	29.000
SODIUM	160.000	160.000	175.000	190.000	140.000	100.000	80.000	110.000	110.000	120.000	90.000
SULFATE	215.000	205.000	145.000	220.000	220.000	190.000	195.000	200.000	230.000	200.000	200.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.100	0.400	0.300	0.600	0.200	0.200	0.800	0.200	0.300	0.100
GROS ALPHA	0.0	13.000	2.800	4.700	4.900	1.400	7.400	2.500	8.100	7.100	8.400
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.000	0.0
HARDNESS	325.000	330.000	290.000	280.000	340.000	420.000	445.000	430.000	425.000	390.000	460.000
PH	6.500	6.400	6.400	6.700	6.000	6.200	7.900	6.800	6.600	6.800	6.400
CONDUCTANC	860.000	1045.000	930.000	1000.000	980.000	1150.000	1150.000	1020.000	943.400	960.000	905.000
DIS SOLIDS	760.000	770.000	760.000	800.000	760.000	700.000	660.000	755.000	740.000	710.000	700.000
MANGANESE	0.120	1.900	1.300	2.500	1.500	1.000	0.300	5.000	0.080	8.000	0.050
ALKALINITY	405.000	420.000	420.000	372.000	329.000	332.000	355.000	370.000	375.000	375.000	350.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.500	2.400	3.000	-0.010	0.300	0.030	3.500	-0.010	2.000	0.500	2.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010	-0.010	-0.010	-0.010	0.020
NICKEL	0.050	0.080	0.060	0.060	0.060	0.070	0.010	0.090	0.010	0.080	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	41.000	100.000	7.000	8.000	15.000	39.000	30.000	38.000	5.000	250.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-8

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.100	0.200	0.100	0.100	0.050	0.010	0.050	1.000	0.050	0.050	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.200	0.500	0.200	0.500	0.500	0.500	0.500	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.010	0.005	0.010	0.010	0.010	0.001	0.005	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.020	0.100	0.050	0.010	0.020	0.050	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
LITHIUM	0.100	0.0	0.0	0.001	0.001	0.0	0.010	0.010	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.010	0.001	0.010	0.001	0.001	0.005	0.050	0.005	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.001	0.001	0.0	0.001	0.0	0.0	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	1.000	1.000	0.100	1.000	0.100	1.000	1.000	1.000	0.100	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.100	0.0	0.0	0.100	0.0	0.0	0.0	0.500	0.0	0.800
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	2.000	5.000	5.000	2.000	10.000	5.000	5.000	5.000
SILVER	0.000	0.0	0.0	0.000	0.0	0.000	0.0	0.0	0.0	0.000	0.0
SODIUM	99999.000	5.000	5.000	5.000	10.000	2.000	10.000	99999.000	10.000	2.000	10.000

12/29/75

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-8

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.001	0.001	0.010	0.001	0.010	0.0	0.001	0.001	0.005	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.001	0.001	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NNN-J23-0000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-11

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	32975	41575	42975	51475	52975	61175	63075	71575	80575	83075	101075
DEPTH	0.0	48.38	47.41	46.05	44.41	42.60	40.47	44.20	45.05	42.83	43.82
TEMP	48.2	47.9	50.0	51.8	56.3	51.8	53.6	56.8	52.2	53.6	47.3
LAB ID											
LAB NUM	9025	235	236	440	441	900	2262	1544	2050	2766	3444
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A
WET											
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.200	0.400	0.600	0.300	0.400	0.0	0.500	0.300	0.700	1.100
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	675.000	650.000	680.000	660.000	630.000	570.000	615.000	650.000	650.000	675.000	650.000
CADMIUM	-0.010	0.010	-0.010	0.020	0.030	0.070	0.020	0.090	-0.010	-0.010	-0.010
CALCIUM	77.000	190.000	140.000	170.000	210.000	150.000	160.000	125.000	135.000	58.000	140.000
CARBONATE	-0.100	-0.100	-0.100	18.000	6.000	24.000	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	19.000	19.000	23.000	27.000	21.000	27.000	12.000	30.000	14.000	11.000	21.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	0.500	-0.100
FLUORIDE	0.200	0.300	0.200	-0.100	0.200	0.200	0.100	0.200	0.600	0.200	0.500
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	6.300	6.300	4.300	5.000	6.000	15.000	8.800	7.700	8.500	6.400
LEAD	0.040	0.200	0.300	0.300	0.400	0.100	0.100	0.700	0.080	0.800	0.100
MAGNESIUM	115.000	67.000	90.000	35.000	3.700	84.000	81.000	95.000	105.000	145.000	110.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	1.600	0.300	4.000	12.000	13.000	19.000	17.000	20.000	21.000	16.500	17.000
PHOSPHATE	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	40.000	32.000	33.000	34.000	37.000	36.000	37.000	41.000	39.000	36.000	35.000
SODIUM	255.000	210.000	240.000	300.000	290.000	260.000	270.000	230.000	290.000	240.000	210.000
SULFATE	570.000	580.000	580.000	540.000	540.000	600.000	650.000	550.000	720.000	600.000	610.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.030	0.300	0.100	0.400	0.500	3.200	1.300	1.400	0.200	0.0	0.400
GROS ALPHA	0.0	15.000	15.000	11.000	17.000	7.600	8.100	14.000	20.000	21.000	13.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	6.000	12.000	0.0	35.000	0.0
HARDNESS	670.000	750.000	720.000	570.000	540.000	720.000	730.000	700.000	765.000	745.000	810.000
PH	6.400	6.400	6.400	6.800	6.100	6.200	7.000	7.200	7.200	6.000	6.000
CONDUCTANC	1880.000	1930.000	1875.000	1860.000	1940.000	2070.000	2220.000	1764.000	2252.000	1620.000	1590.000
DIS SOLIDS	1410.000	1420.000	1420.000	1460.000	1430.000	1490.000	1540.000	1420.000	1640.000	1450.000	1470.000
MANGANESE	0.330	1.000	1.200	1.700	3.500	2.800	4.000	4.500	5.800	15.000	0.100
ALKALINITY	555.000	530.000	560.000	555.000	525.000	490.000	505.000	535.000	530.000	550.000	530.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.400	3.700	4.200	27.000	0.200	0.070	0.400	0.500	1.900	1.000	0.600
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.070	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.040	0.030	0.050	0.080	0.100	0.040	0.100	0.060	0.020	0.100
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	63.000	32.000	32.000	32.000	34.000	70.000	50.000	88.000	42.000	115.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.200	0.100	0.010	0.010	0.100	0.010	0.100	0.500	0.100	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.001	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.500	0.500	0.200	0.200	0.200	0.200	0.200	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.010	0.001	0.010	0.005	0.001	0.010	0.010	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.050	0.100	0.020	0.050	0.050	0.050	0.050	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001
LITHIUM	0.0	0.010	0.010	0.001	0.001	0.001	0.001	0.010	0.010	0.010	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.100	0.001	0.005	0.010	0.010	0.001	0.010	0.100	0.005	0.010	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.050	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.005	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.500	0.010	0.500	1.000	1.000	0.500	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.500	0.700	0.200	0.100	0.400	0.400	0.500	0.100	0.400	0.0	1.000
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	2.000	5.000	2.000	5.000	5.000	5.000	5.000	5.000	2.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000
SODIUM	99999.000	5.000	10.000	10.000	10.000	5.000	10.000	99999.000	10.000	10.000	2.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.001	0.0	0.010	0.010	0.0	0.0	0.001	0.001	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.010	0.0	0.001	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	33175	41575	42975	51475	52975	61175	63075	71575	80575	83075	100975
DEPTH	0.0	32.28	32.25	31.98	34.50	34.60	32.04	35.39	35.41	33.23	33.87
TEMP	45.5	46.9	48.2	51.1	48.6	55.8	55.4	55.3	50.6	51.8	64.7
LAB ID											
LAB NUM	9026	237	238	442	443	901	2263	1545	2051	2767	3445
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A
WET											
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.500	0.200	0.200	0.200	0.200	0.400	0.0	0.200	-0.100	0.200	-0.100
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	700.000	710.000	620.000	550.000	620.000	570.000	680.000	695.000	750.000	755.000	670.000
CADMIUM	-0.010	-0.010	-0.010	0.010	0.010	0.010	-0.010	0.030	-0.010	-0.010	-0.010
CALCIUM	28.000	110.000	87.000	81.000	110.000	100.000	125.000	100.000	98.000	54.000	120.000
CARBONATE	-0.100	-0.100	-0.100	54.000	30.000	36.000	-0.100	-0.100	-0.100	-0.100	37.000
CHLORIDE	22.000	16.000	71.000	21.000	21.000	34.000	20.000	25.000	18.000	23.000	21.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	-0.010	0.100	0.100	-0.100	-0.100	3.200	-0.100
FLUORIDE	0.300	0.400	0.300	0.400	0.400	0.300	0.300	0.400	0.400	0.400	1.100
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	8.000	8.000	22.000	6.600	7.800	16.000	2.600	5.300	7.600	0.600
LEAD	0.040	0.100	0.050	0.700	0.400	0.300	0.600	0.700	0.020	0.800	0.060
MAGNESIUM	120.000	96.000	98.000	95.000	84.000	95.000	92.000	110.000	120.000	140.000	120.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	2.500	2.900	2.300	4.200	2.500	3.000	3.300	2.700	3.600	2.100	2.500
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	37.000	35.000	32.000	33.000	34.000	33.000	40.000	38.000	34.000	35.000	32.000
SODIUM	265.000	230.000	230.000	210.000	210.000	230.000	220.000	165.000	240.000	220.000	170.000
SULFATE	450.000	480.000	450.000	420.000	410.000	500.000	500.000	390.000	580.000	470.000	450.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.040	0.200	0.030	0.300	0.0	0.500	0.700	1.600	0.100	0.900	-0.100
GROS ALPHA	0.0	14.000	11.000	7.800	9.000	7.600	11.000	13.000	7.200	8.400	13.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	3.000	1.000	0.0	4.200	0.0
HARDNESS	550.000	670.000	620.000	590.000	620.000	640.000	685.000	690.000	730.000	700.000	800.000
PH	6.400	6.600	6.800	6.600	6.200	6.400	5.800	6.900	6.800	6.200	5.200
CONDUCTANC	1511.000	1700.000	1550.000	1650.000	1650.000	1710.000	2090.000	1778.000	1525.000	1580.000	1490.000
DIS SOLIDS	1270.000	1280.000	1210.000	1190.000	1200.000	1320.000	1350.000	1170.000	1460.000	1320.000	1290.000
MANGANESE	0.090	6.400	0.100	2.900	0.500	2.100	3.500	7.500	2.600	17.000	0.300
ALKALINITY	570.000	580.000	510.000	494.000	535.000	499.000	555.000	570.000	615.000	620.000	580.000
CYANIDE	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.400	1.200	4.700	0.060	10.000	0.030	4.000	0.090	2.100	0.800	0.800
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010	-0.010	-0.010	-0.010	0.010
NICKEL	0.040	0.070	0.010	0.100	0.040	0.100	0.030	0.100	0.010	0.200	0.060
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	64.000	54.000	18.000	60.000	10.000	135.000	100.000	66.000	35.000	270.000

12/29/75 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-12

SPECTROGRAPHIC

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
ALUMINUM	0.100	0.010	0.010	0.010	0.010	0.050	0.050	1.000	0.100	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.200	0.500	0.500	0.200	0.500	0.200	0.500	0.100	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.005	0.010	0.001	0.010	0.001	0.005	0.020	0.010	0.005	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.010	0.050	0.020	0.010	0.020	0.020	0.020	0.020	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.001	0.001	0.001	0.0	0.001	0.010	0.010	0.010	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	9999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000	99999.000
MANGANESE	0.010	0.001	0.001	0.010	0.001	0.0	0.010	0.100	0.005	0.005	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.001	0.0	0.0	0.0	0.005	0.0	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.100	0.100	0.100	1.000	1.000	1.000	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.300	0.400	0.200	0.100	0.400	0.400	0.200	0.200	0.0	1.200
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	2.000	5.000	5.000	2.000	5.000	10.000	2.000	5.000	2.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	5.000	5.000	2.000	5.000	99999.000	99999.000	99999.000	10.000	5.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.0	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.010	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.0	0.010	0.001	0.001	0.001	0.010	0.0	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NNN-J23-0000

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                              WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID S-19

JOB#-741-40        OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X-       0.0  Y-       0.0  Z-       0.0
DATE DRILL COMPL- 62175  DATE CONV TO MONITOR- 62175  AQUIFER 1:    0.0 -    0.0 FT  AQUIFER 2:    0.0 -    0.0 FT


SAMPLES              1          2          3          4          5

DATE             63075      71575      80575      83075     100975
DEPTH            52.00      55.69      56.39      54.50      53.60
TEMP              53.8       55.4       53.6       52.2       50.2
LAB ID
LAB NUM           2264       1546       2052       2768       3446
METHOD               3          3          3          3          3
AQUIF.LOC.           A          A          A          A          A

WET

ALUMINUM        0.0        0.0        0.0        0.0        0.0
AMMONIA         0.0        0.300      0.300      0.200      0.0
ARSENIC        -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT    600.000    530.000    610.000    520.000    490.000
CADMIUM         0.030     -0.010     -0.010     -0.010     -0.010
CALCIUM        88.000     98.000    140.000    140.000    110.000
CARBONATE      -0.100     -0.100     -0.100     18.000     28.000
CHLORIDE       16.000     23.000      8.200     14.000     21.000
CHROMIUM       -0.010     -0.010     -0.010     -0.010      0.0
COPPER          0.100     -0.100     -0.100      2.600      0.300
FLUORIDE        0.100      0.300      0.600      0.300      0.600
HYDROXIDE       0.0        0.0        0.0        0.0        0.0
IRON           16.000     15.000      8.700      5.200     16.000
LEAD            0.700      0.100      0.060      0.900      0.0
MAGNESIUM     115.000    120.000     77.000     62.000    110.000
MERCURY        -0.002     -0.002     -0.002     -0.002     -0.002
NITRATE         6.800      5.000      7.000      1.000      7.800
PHOSPHATE      -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM       0.0        0.0        0.0        0.0        0.0
SELENIUM       -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID     40.000     43.000     38.000     36.000     29.000
SODIUM        235.000    165.000    310.000    220.000    170.000
SULFATE       615.000    550.000    780.000    600.000    540.000
SULFIDE         0.0        0.0        0.0        0.0        0.0
ZINC            1.100      5.700      0.300      0.900      1.000
GROS ALPHA     11.000      5.000      9.800     11.000     12.000
GROSS BETA      5.000      8.000      0.0       30.000      0.0
HARDNESS      700.000    730.000    665.000    635.000    710.000
PH              6.800      6.900      6.800      6.200      6.400
CONDUCTANC   2000.000   1760.000   1615.000   1420.000   1670.000
DIS SOLIDS   1420.000   1280.000   1670.000   1640.000   1270.000
MANGANESE      12.000     14.000      0.090      2.400      0.200
ALKALINITY    490.000    435.000    500.000    440.000    420.000
CYANIDE        -0.010     -0.010     -0.010     -0.010     -0.010
BORON          -0.010      0.100      0.500      2.000      0.800
BARIUM         -1.000     -1.000     -1.000     -1.000     -1.000
SILVER          0.030     -0.010     -0.010     -0.010      0.0
NICKEL          0.200      0.060      0.030      0.090      0.070
LITHIUM         0.0        0.0        0.0        0.0        0.0
TOC           174.000    170.000    107.000     61.000    130.000
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SAMPLES             1          2          3          4          5


SPECTROGRAPHIC

ALUMINUM        0.010      1.000      0.050      0.100      0.050
ANTIMONY        0.0        0.0        0.0        0.0        0.0
ARSENIC         0.0        0.0        0.0        0.0        0.0
BARIUM          0.0        0.010      0.0        0.001      0.0
BERYLIUM        0.0        0.0        0.0        0.0        0.0
BISMUTH         0.0        0.0        0.0        0.0        0.0
BORON           0.500      0.500      0.200      0.500      0.500
CADMIUM         0.0        0.0        0.0        0.0        0.0
CALCIUM     99999.000  99999.000  99999.000  99999.000  99999.000
CERIUM          0.0        0.0        0.0        0.0        0.0
CESIUM          0.0        0.0        0.0        0.0        0.0
CHROMIUM        0.0        0.0        0.0        0.0        0.0
COBOLT          0.0        0.0        0.0        0.0        0.0
COLUMBIUM       0.0        0.0        0.0        0.0        0.0
COPPER          0.005      0.020      0.010      0.001      0.005
DYSPROSIUM      0.0        0.0        0.0        0.0        0.0
ERBIUM          0.0        0.0        0.0        0.0        0.0
EUROPIUM        0.0        0.0        0.0        0.0        0.0
GADOLINIUM      0.0        0.0        0.0        0.0        0.0
GALLIUM         0.0        0.0        0.0        0.0        0.0
GERMANIUM       0.0        0.0        0.0        0.0        0.0
GOLD            0.0        0.0        0.0        0.0        0.0
HAFNIUM         0.0        0.0        0.0        0.0        0.0
HOLMIUM         0.0        0.0        0.0        0.0        0.0
INDIUM          0.0        0.0        0.0        0.0        0.0
IRIDIUM         0.0        0.0        0.0        0.0        0.0
IRON            0.020      0.500      0.050      0.010      0.020
LANTHANUM       0.0        0.0        0.0        0.0        0.0
LEAD            0.0        0.010      0.0        0.001      0.001
LITHIUM         0.010      0.010      0.001      0.001      0.010
LUTETIUM        0.0        0.0        0.0        0.0        0.0
MAGNESIUM    9999.000  99999.000  99999.000  99999.000  99999.000
MANGANESE       0.005      0.100      0.001      0.010      0.005
MERCURY         0.0        0.0        0.0        0.0        0.0
MOLYBDENUM      0.001      0.010      0.0        0.001      0.001
NEODYMIUM       0.0        0.0        0.0        0.0        0.0
NICKEL          0.0        0.0        0.0        0.0        0.0
OSMIUM          0.0        0.0        0.0        0.0        0.0
PALLADIUM       0.0        0.0        0.0        0.0        0.0
PLATINUM        0.0        0.0        0.0        0.0        0.0
POTASSIUM       1.000      1.000      0.100      0.100      0.100
PRASEODYMI      0.0        0.0        0.0        0.0        0.0
RADIUM          0.500      0.100      0.300      0.0        0.600
RHENIUM         0.0        0.0        0.0        0.0        0.0
RHODIUM         0.0        0.0        0.0        0.0        0.0
RUBIDIUM        0.0        0.0        0.0        0.0        0.0
RUTHENIUM       0.0        0.0        0.0        0.0        0.0
SAMARIUM        0.0        0.0        0.0        0.0        0.0
SCANDIUM        0.0        0.0        0.0        0.0        0.0
SELENIUM        0.0        0.0        0.0        0.0        0.0
SILICON         5.000     10.000      5.000      5.000      5.000
SILVER          0.0        0.0        0.0        0.001      0.0
SODIUM         10.000  99999.000      5.000      5.000     10.000
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SAMPLES	1	2	3	4	5
STRONTIUM	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.001	0.0	0.0	0.0
TITANIUM	0.0	0.010	0.010	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.001	0.001	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X-       0.0  Y-       0.0  Z-       0.0
DATE DRILL COMPL- 61975  DATE CONV TO MONITOR- 62075  AQUIFER 1:     0.0 -    0.0 FT  AQUIFER 2:     0.0 -    0.0 FT


SAMPLES               1          2          3          4          5

DATE              63075      71575      80575      83075     100975
DEPTH             65.49      67.36      68.00      66.24      66.60
TEMP               52.3       53.6       50.9       51.8       49.1
LAB ID
LAB NUM            2265       1547       2053       2769       3447
METHOD                3          3          3          3          3
AQUIF.LOC.            A          A          A          A          A

WET

ALUMINUM        0.0        0.0        0.0        0.0        0.0
AMMONIA         0.0        0.300     -0.100      0.200     -0.100
ARSENIC        -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT    660.000    695.000    690.000    700.000    620.000
CADMIUM        -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM        66.000     77.000     68.000     51.000    100.000
CARBONATE      -0.100     -0.100     -0.100     -0.100     19.000
CHLORIDE       18.000     21.000     12.000     16.000     21.000
CHROMIUM       -0.010     -0.010     -0.010     -0.010     -0.010
COPPER         -0.100     -0.100      0.100      0.300      0.600
FLUORIDE        0.200      0.400      0.800      0.400      1.200
HYDROXIDE       0.0        0.0        0.0        0.0        0.0
IRON           16.000      8.300      4.900      2.300      5.600
LEAD            0.070      0.200      0.100      0.400      0.100
MAGNESIUM     135.000    125.000    140.000    145.000    120.000
MERCURY        -0.002     -0.002     -0.002     -0.002     -0.002
NITRATE         1.600      3.500      2.000      3.200      2.200
PHOSPHATE       0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM       0.0        0.0        0.0        0.0        0.0
SELENIUM       -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID     32.000     32.000     28.000     32.000     29.000
SODIUM        185.000    250.000    175.000    230.000    230.000
SULFATE       500.000    550.000    495.000    560.000    600.000
SULFIDE         0.0        0.0        0.0        0.0        0.0
ZINC            0.600      0.400      0.200      0.100      0.300
GROS ALPHA     11.000     14.000      8.100     16.000     11.000
GROSS BETA      6.000      0.0        0.0       14.000      0.0
HARDNESS      720.000    710.000    735.000    715.000    740.000
PH              6.800      7.200      6.800      6.000      6.100
CONDUCTANC   2230.000   1914.000   1740.000   1860.000   1870.000
DIS SOLIDS   1230.000   1410.000   1260.000   1380.000   1430.000
MANGANESE       1.300      0.600      0.100      0.050      0.300
ALKALINITY    540.000    570.000    565.000    575.000    530.000
CYANIDE        -0.010     -0.010     -0.010     -0.010     -0.010
BORON           2.600      0.300      0.400      0.500      0.500
BARIUM         -1.000     -1.000     -1.000     -1.000     -1.000
SILVER          0.010     -0.010     -0.010     -0.010      0.020
NICKEL          0.030      0.050      0.020      0.040      0.060
LITHIUM         0.0        0.0        0.0        0.0        0.0
TOC            19.000     11.000      9.000      9.000     20.000
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SAMPLES               1          2          3          4          5


SPECTROGRAPHIC

ALUMINUM          0.005      0.500      0.010      0.050      0.100
ANTIMONY          0.0        0.0        0.0        0.0        0.0
ARSENIC           0.0        0.0        0.0        0.0        0.0
BARIUM            0.001      0.001      0.0        0.0        0.001
BERYLIUM          0.0        0.0        0.0        0.0        0.0
BISMUTH           0.0        0.0        0.0        0.0        0.0
BORON             0.500      0.500      0.200      0.500      0.500
CADMIUM           0.0        0.0        0.0        0.0        0.0
CALCIUM       99999.000  99999.000  99999.000  99999.000  99999.000
CERIUM            0.0        0.0        0.0        0.0        0.0
CESIUM            0.0        0.0        0.0        0.0        0.0
CHROMIUM          0.0        0.0        0.0        0.0        0.0
COBOLT            0.0        0.0        0.0        0.0        0.0
COLUMBIUM         0.0        0.0        0.0        0.0        0.0
COPPER            0.005      0.010      0.005      0.005      0.001
DYSPROSIUM        0.0        0.0        0.0        0.0        0.0
ERBIUM            0.0        0.0        0.0        0.0        0.0
EUROPIUM          0.0        0.0        0.0        0.0        0.0
GADOLINIUM        0.0        0.0        0.0        0.0        0.0
GALLIUM           0.0        0.0        0.0        0.0        0.0
GERMANIUM         0.0        0.0        0.0        0.0        0.0
GOLD              0.0        0.0        0.0        0.0        0.0
HAFNIUM           0.0        0.0        0.0        0.0        0.0
HOLMIUM           0.0        0.0        0.0        0.0        0.0
INDIUM            0.0        0.0        0.0        0.0        0.0
IRIDIUM           0.0        0.0        0.0        0.0        0.0
IRON              0.050      0.100      0.010      0.020      0.010
LANTHANUM         0.0        0.0        0.0        0.0        0.0
LEAD              0.0        0.0        0.0        0.0        0.0
LITHIUM           0.010      0.001      0.0        0.010      0.010
LUTETIUM          0.0        0.0        0.0        0.0        0.0
MAGNESIUM     99999.000  99999.000  99999.000  99999.000  99999.000
MANGANESE         0.001      0.050      0.001      0.010      0.010
MERCURY           0.0        0.0        0.0        0.0        0.0
MOLYBDENUM        0.0        0.0        0.001      0.0        0.0
NEODYMIUM         0.0        0.0        0.0        0.0        0.0
NICKEL            0.0        0.0        0.0        0.0        0.0
OSMIUM            0.0        0.0        0.0        0.0        0.0
PALLADIUM         0.0        0.0        0.0        0.0        0.0
PLATINUM          0.0        0.0        0.0        0.0        0.0
POTASSIUM         1.000      1.000      1.000      1.000      1.000
PRASEODYMI        0.0        0.0        0.0        0.0        0.0
RADIUM            0.500      0.0        0.400      0.100      0.400
RHENIUM           0.0        0.0        0.0        0.0        0.0
RHODIUM           0.0        0.0        0.0        0.0        0.0
RUBIDIUM          0.0        0.0        0.0        0.0        0.0
RUTHENIUM         0.0        0.0        0.0        0.0        0.0
SAMARIUM          0.0        0.0        0.0        0.0        0.0
SCANDIUM          0.0        0.0        0.0        0.0        0.0
SELENIUM          0.0        0.0        0.0        0.0        0.0
SILICON           2.000      5.000      2.000      2.000      5.000
SILVER            0.0        0.001      0.0        0.0        0.0
SODIUM           10.000  99999.000     10.000     10.000     10.000
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NNN-J23-0000

SAMPLES	1	2	3	4	5
STRONTIUM	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.001	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.0	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40         OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X-        0.0  Y-        0.0  Z-        0.0
DATE DRILL COMPL- 62075  DATE CONV TO MONITOR- 62075  AQUIFER 1:     0.0 -     0.0 FT  AQUIFER 2:     0.0 -     0.0 FT


SAMPLES               1          2          3          4          5

DATE              63075      71575      80575      83075     100975
DEPTH             28.50      30.44      30.75      28.81      29.22
TEMP               50.9       55.0       50.9       49.1       49.1
LAB ID
LAB NUM            2267       1548       2054       2770       3448
METHOD                3          3          3          3          3
AQUIF.LOC.            A          A          A          A          A

WET

ALUMINUM        0.0        0.0        0.0        0.0        0.0
AMMONIA         0.0        0.300     -0.100      0.200     -0.100
ARSENIC        -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT    600.000    525.000    590.000    605.000    590.000
CADMIUM        -0.010      0.010     -0.010     -0.010     -0.010
CALCIUM        96.000     84.000     84.000     50.000    110.000
CARBONATE      -0.100     -0.100     -0.100    605.000     -0.010
CHLORIDE       11.000     22.000     12.000     14.000     14.000
CHROMIUM       -0.010     -0.010     -0.010     -0.010     -0.010
COPPER         -0.100     -0.100      0.300      0.200      0.200
FLUORIDE        0.100      0.400      0.400      0.200      0.700
HYDROXIDE       0.0        0.0        0.0        0.0        0.0
IRON            0.500     17.700      0.600      1.000      1.100
LEAD            0.040      0.040      0.300      0.300      0.070
MAGNESIUM     120.000    105.000    130.000    135.000    130.000
MERCURY        -0.002     -0.002     -0.002     -0.002     -0.002
NITRATE        -0.100      1.600      4.500      2.900      4.400
PHOSPHATE      -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM       0.0        0.0        0.0        0.0        0.0
SELENIUM       -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID     32.000     44.000     34.000     28.000     27.000
SODIUM        160.000    220.000    150.000    220.000    180.000
SULFATE       510.000    550.000    510.000    580.000    630.000
SULFIDE         0.0        0.0        0.0        0.0        0.0
ZINC            0.400      2.600      0.100      0.100     -0.100
GROS ALPHA      3.300     16.000      8.500     10.000      9.300
GROSS BETA      0.0        0.0        0.0       16.000      0.0
HARDNESS      730.000    650.000    750.000    685.000    800.000
PH              7.000      7.000      6.800      6.100      6.100
CONDUCTANC   2275.000   1920.000   1680.000   1780.000   1670.000
DIS SOLIDS   1220.000   1300.000   1210.000   1320.000   1390.000
MANGANESE       0.200     13.000      0.300     -0.050     -0.050
ALKALINITY    490.000    430.000    485.000    495.000    480.000
CYANIDE        -0.010     -0.010     -0.010     -0.010     -0.010
BORON           0.900      0.100      0.600      0.600      0.300
BARIUM         -1.000     -1.000     -1.000     -1.000     -1.000
SILVER         -0.010     -0.010     -0.010     -0.010     -0.010
NICKEL          0.010      0.020      0.020      0.030      0.070
LITHIUM         0.0        0.0        0.0        0.0        0.0
TOC            44.000     75.000     10.000     20.000      7.000
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SAMPLES               1          2          3          4          5


SPECTROGRAPHIC

ALUMINUM          0.050      0.500      0.050      0.010      0.010
ANTIMONY          0.0        0.0        0.0        0.0        0.0
ARSENIC           0.0        0.0        0.0        0.0        0.0
BARIUM            0.0        0.0        0.0        0.001      0.0
BERYLIUM          0.0        0.0        0.0        0.0        0.0
BISMUTH           0.0        0.0        0.0        0.0        0.0
BORON             0.200      0.500      0.500      0.200      0.500
CADMIUM           0.0        0.0        0.0        0.0        0.0
CALCIUM       99999.000  99999.000  99999.000  99999.000  99999.000
CERIUM            0.0        0.0        0.0        0.0        0.0
CESIUM            0.0        0.0        0.0        0.0        0.0
CHROMIUM          0.0        0.0        0.0        0.0        0.0
COBOLT            0.0        0.0        0.0        0.0        0.0
COLUMBIUM         0.0        0.0        0.0        0.0        0.0
COPPER            0.010      0.010      0.010      0.010      0.010
DYSPROSIUM        0.0        0.0        0.0        0.0        0.0
ERBIUM            0.0        0.0        0.0        0.0        0.0
EUROPIUM          0.0        0.0        0.0        0.0        0.0
GADOLINIUM        0.0        0.0        0.0        0.0        0.0
GALLIUM           0.0        0.0        0.0        0.0        0.0
GERMANIUM         0.0        0.0        0.0        0.0        0.0
GOLD              0.0        0.0        0.0        0.0        0.0
HAFNIUM           0.0        0.0        0.0        0.0        0.0
HOLMIUM           0.0        0.0        0.0        0.0        0.0
INDIUM            0.0        0.0        0.0        0.0        0.0
IRIDIUM           0.0        0.0        0.0        0.0        0.0
IRON              0.050      0.020      0.020      0.050      0.020
LANTHANUM         0.0        0.0        0.0        0.0        0.0
LEAD              0.0        0.0        0.0        0.0        0.0
LITHIUM           0.001      0.010      0.010      0.001      0.001
LUTETIUM          0.0        0.0        0.0        0.0        0.0
MAGNESIUM     99999.000  99999.000  99999.000  99999.000  99999.000
MANGANESE         0.005      0.050      0.005      0.010      0.001
MERCURY           0.0        0.0        0.0        0.0        0.0
MOLYBDENUM        0.0        0.001      0.0        0.001      0.001
NEODYMIUM         0.0        0.0        0.0        0.0        0.0
NICKEL            0.0        0.0        0.0        0.0        0.070
OSMIUM            0.0        0.0        0.0        0.0        0.0
PALLADIUM         0.0        0.0        0.0        0.0        0.0
PLATINUM          0.0        0.0        0.0        0.0        0.0
POTASSIUM         0.100      1.000      1.000      0.100      1.000
PRASEODYMI        0.0        0.0        0.0        0.0        0.0
RADIUM            0.0        0.100      0.200      0.0        0.200
RHENIUM           0.0        0.0        0.0        0.0        0.0
RHODIUM           0.0        0.0        0.0        0.0        0.0
RUBIDIUM          0.0        0.0        0.0        0.0        0.0
RUTHENIUM         0.0        0.0        0.0        0.0        0.0
SAMARIUM          0.0        0.0        0.0        0.0        0.0
SCANDIUM          0.0        0.0        0.0        0.0        0.0
SELENIUM          0.0        0.0        0.0        0.0        0.0
SILICON           5.000     10.000      5.000      5.000      5.000
SILVER            0.0        0.001      0.0        0.0        0.0
SODIUM            5.000  99999.000  99999.000      2.000      5.000
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NNN-J23-0000

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SAMPLES              1          2          3          4          5

STRONTIUM         0.100      0.100      0.100      0.100      0.100
TANTALUM          0.0        0.0        0.0        0.0        0.0
TERBIUM           0.0        0.0        0.0        0.0        0.0
THALLIUM          0.0        0.0        0.0        0.0        0.0
THORIUM           0.0        0.0        0.0        0.0        0.0
THULIUM           0.0        0.0        0.0        0.0        0.0
TIN               0.0        0.0        0.0        0.0        0.0
TITANIUM          0.001      0.010      0.0        0.001      0.0
TUNGSTEN          0.0        0.0        0.0        0.0        0.0
URANIUM           0.0        0.0        0.0        0.0        0.0
VANADIUM          0.0        0.0        0.0        0.0        0.0
YTTERBIUM         0.0        0.0        0.0        0.0        0.0
YTTRIUM           0.0        0.0        0.0        0.0        0.0
ZINC              0.001      0.0        0.001      0.0        0.001
ZIRCONIUM         0.0        0.0        0.0        0.0        0.0
```

```
JOB#-741-40         OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X-       0.0  Y-       0.0  Z-       0.0
DATE DRILL COMPL- 61875  DATE CONV TO MONITOR- 61875  AQUIFER 1:     0.0 -    0.0 FT  AQUIFER 2:     0.0 -    0.0 FT


SAMPLES               1          2          3          4          5

DATE              63075      71575      80575      83075     101075
DEPTH              5.20       7.99       8.12       5.81       6.25
TEMP               52.5       51.8       50.0       10.9       46.6
LAB ID
LAB NUM            2268       1549       2055       2771       3449
METHOD                3          3          3          3          3
AQUIF.LOC.            A          A          A          A          A

WET

ALUMINUM        0.0        0.0        0.0        0.0        0.0
AMMONIA         0.0          0.400     -0.100      0.200     -0.100
ARSENIC          -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT      580.000    590.000    635.000    540.000    510.000
CADMIUM          -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM          31.000     75.000     84.000     48.000     77.000
CARBONATE        -0.100     -0.100     -0.100     30.000     31.000
CHLORIDE          9.500     25.000     11.000     14.000     21.000
CHROMIUM         -0.010     -0.010     -0.010     -0.010     -0.010
COPPER           -0.100     -0.100     -0.100      0.200      0.400
FLUORIDE          0.200      0.300      0.400      0.200      0.800
HYDROXIDE       0.0        0.0        0.0        0.0        0.0
IRON              2.800     13.300      1.900      8.100      1.500
LEAD              0.040      0.800      0.300      0.500      0.200
MAGNESIUM       145.000     81.000    110.000    140.000    120.000
MERCURY          -0.002     -0.002     -0.002     -0.002     -0.002
NITRATE           5.200      4.600      5.100      8.500      7.800
PHOSPHATE        -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM       0.0        0.0        0.0        0.0        0.0
SELENIUM         -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID       28.000     30.000     29.000     28.000     28.000
SODIUM          175.000    250.000    185.000    165.000    160.000
SULFATE         510.000    500.000    485.000    460.000    460.000
SULFIDE         0.0        0.0        0.0        0.0        0.0
ZINC              0.100      1.500      0.100      0.200     -0.100
GROS ALPHA        9.300      4.700      9.100      9.300     11.000
GROSS BETA      0.0          4.000    0.0        0.0        0.0
HARDNESS        665.000    520.000    655.000    700.000    700.000
PH                7.000      7.000      7.000      6.100      6.100
CONDUCTANC     1910.000   1688.000   1490.000   1590.000   1540.000
DIS SOLIDS     1190.000   1260.000   1220.000   1170.000   1160.000
MANGANESE         0.100      1.100      0.100      0.800      0.060
ALKALINITY      475.000    480.000    520.000    464.000    440.000
CYANIDE          -0.010     -0.010     -0.010     -0.010     -0.010
BORON             0.600     -0.010      0.600      0.400      0.400
BARIUM           -1.000     -1.000     -1.000     -1.000     -1.000
SILVER           -0.010     -0.010     -0.010     -0.010      0.010
NICKEL            0.010      0.060      0.010      0.060      0.050
LITHIUM         0.0        0.0        0.0        0.0        0.0
TOC              19.000     12.000     23.000     11.000     16.000
```

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.010	0.200	0.100	0.100	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.001	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.200	0.500	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	10.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.010	0.010	0.005	0.020
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.050	0.050	0.020	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.010	0.010	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	10.000	99999.000	5.000	99999.000	99999.000
MANGANESE	0.001	0.100	0.010	0.005	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.005	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	1.000	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.400	0.200	0.200	0.0	0.700
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	5.000	5.000	5.000
SILVER	0.0	0.001	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	10.000	5.000

SAMPLES	1	2	3	4	5
STRONTIUM	0.100	0.100	0.010	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

UPPER AND LOWER AQUIFER MONITORING

SECTION 1.2.7

Water Level Data

Wet Chemical and Spectrographic Analyses, Upper and Lower Aquifer

EXPLANATION -- WATER QUALITY COMPUTER OUTPUT SHEETS

1. Core Hole Description Data

Job # 741-40-

Assigned project number for Rio Blanco Oil Shale Project by Wright Water Engineers, Inc.

Location

X = Coordinates east in feet, 7200 foot

Datum of the Colorado State Coordinate System

Y = Coordinates, north in feet, 7200 foot

Datum of the Colorado State Coordinate System

Z = Elevation in feet above sea of the core hole at ground surface

Date Drill Compl.-

The date when drilling was completed on the Core Hole.

Conv. to Monitor-

Date the Core Hole was converted to a Monitor Hole.

Aquifer 1:

Depth in feet to the top and bottom of the upper aquifer from ground surface.

Aquifer 2:

Depth in feet to the top and bottom of the lower aquifer from ground surface.

2. Sample Description Data

Date-

Date water sample was collected.

Depth-

Depth for Method 1: Total depth sample was collected during drilling.

Depth for Method 2: See aquifer 1 or 2.

Depth for Method 3: The static water level of the hole when sampled.

Temp.-

Field temperature of sample (^{O}F)

Lab ID-

Designation number assigned by the analyzing laboratory.

Method

0. Drilling soap sample
1. Drilling program sample
2. Pumping test program sample
3. Monitoring program sample

3A. Monitoring program sample, not representative of aquifer conditions

Aquif. Loc.

U Sample from upper aquifer during drilling, pumping or monitoring

L Sample from lower aquifer during pumping test or monitoring

C Sample combination of upper and lower aquifer during drilling

A Sample from alluvial aquifer

3. Wet -- Wet Chemical Analysis

Values are in milligrams per liter, except for:

Gross Alpha-- picocuries per liter

Gross Beta -- picocuries per liter

pH -- standard pH values

Conductance-- micromhos per centimeter

Negative values indicate less than minimum detectable limit indicated

0.0 value - constituent not tested for

**** - not analyzed for using wet chemical analysis

4. Spectrographic - spectrographic analysis of 67 elements

All values are in milligrams per liter

0.0 means less than minimum detectable amount

99999.000 means major amount

***** is used in Water Quality Analysis Summary to indicate an element has not been analyzed above the minimum detectable limit

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID AM-2A

JOB#-731-52 OWNER-AMOCO LOCATIONS: X- 158182.71 Y- 214994.65 Z- 7245.00
DATE DRILL COMPL- 92673 DATE CONV TO MONITOR-111474 AQUIFER 1: 420.00- 980.00FT AQUIFER 2: 1510.00-1610.00FT

SAMPLES	1	2	3	4	5	6
DATE	42775	51475	61175	71375	82875	82975
DEPTH	404.29	399.51	399.30	632.78	635.01	391.43
TEMP	53.6	55.6	57.6	65.3	64.0	49.1
LAB ID						
LAB NUM	181	429	897	1352	2481	2480
METHOD	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	L	U
WET						
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.300	0.400	0.500	0.800	0.900	0.400
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	645.000	415.000	410.000	2780.000	445.000	520.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	83.000	28.000	36.000	4.100	6.600	32.000
CARBONATE	-0.100	42.000	66.000	-0.100	66.000	-0.100
CHLORIDE	8.200	7.000	14.000	75.000	34.000	7.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.600	1.100	1.100	16.000	3.900	2.500
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0
IRON	4.100	8.600	6.700	3.000	2.800	8.500
LEAD	0.300	0.400	0.400	2.800	0.600	0.900
MAGNESIUM	38.000	51.000	66.000	17.000	42.000	54.000
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002
NITRATE	0.600	0.100	0.500	0.500	0.600	0.900
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	21.000	20.000	15.000	14.000	5.200	19.000
SODIUM	285.000	240.000	200.000	1170.000	220.000	245.000
SULFATE	410.000	345.000	290.000	185.000	135.000	355.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.500	0.300	0.900	0.200	0.300
GROS ALPHA	4.800	4.000	1.100	8.500	30.000	5.900
GROSS BETA	0.0	0.0	0.0	48.000	19.000	17.000
HARDNESS	365.000	280.000	360.000	80.000	190.000	300.000
PH	7.100	7.000	7.000	7.600	7.200	6.600
CONDUCTANC	1550.000	1350.000	1420.000	1995.000	2780.000	1300.000
DIS SOLIDS	1160.000	950.000	890.000	2850.000	735.000	980.000
MANGANESE	0.080	0.100	0.200	0.080	0.050	0.200
ALKALINITY	530.000	374.000	394.000	2270.000	419.000	425.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	2.200	0.300	0.040	4.600	0.050	0.070
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	-0.010	0.020	0.020	0.020	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0
TOC	8.000	7.000	5.000	24.000	19.000	14.000

NNN-J23-0000

SAMPLES	1	2	3	4	5	6
SPECTROGRAPHIC						
ALUMINUM	0.100	0.100	0.100	0.010	0.050	0.001
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.200	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.010	0.005	0.005	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.050	0.020	0.020	0.010	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.001	0.0	0.0	0.0	0.0
LITHIUM	0.001	0.001	0.010	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000
MANGANESE	0.0	0.001	0.001	0.005	0.001	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	1.000	1.000	1.000	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.500	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	2.000	2.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.000	0.0
SODIUM	10.000	10.000	10.000	10.000	5.000	10.000

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SAMPLES            1          2          3          4          5          6

STRONTIUM       0.100      0.100      0.100      0.100      0.100      0.100
TANTALUM        0.0        0.0        0.0        0.0        0.0        0.0
TERBIUM         0.0        0.0        0.0        0.0        0.0        0.0
THALLIUM        0.0        0.0        0.0        0.0        0.0        0.0
THORIUM         0.0        0.0        0.0        0.0        0.0        0.0
THULIUM         0.0        0.0        0.0        0.0        0.0        0.0
TIN             0.0        0.0        0.0        0.0        0.0        0.0
TITANIUM        0.0        0.001      0.010      0.0        0.001      0.001
TUNGSTEN        0.0        0.0        0.0        0.0        0.0        0.0
URANIUM         0.0        0.0        0.0        0.0        0.0        0.0
VANADIUM        0.0        0.0        0.0        0.0        0.0        0.0
YTTERBIUM       0.0        0.0        0.0        0.0        0.0        0.0
YTTRIUM         0.0        0.0        0.0        0.0        0.0        0.0
ZINC            0.0        0.0        0.001      0.001      0.0        0.0
ZIRCONIUM       0.0        0.0        0.0        0.0        0.0        0.0
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JOB#-731-52          OWNER-AMOCO                      LOCATIONS: X- 152310.78 Y- 218712.19 Z-    6924.00
DATE DRILL COMPL-101073  DATE CONV TO MONITOR-110974  AQUIFER 1:  270.00- 400.00FT  AQUIFER 2:  750.00- 920.00FT


SAMPLES                1           2           3           4           5           6           7           8           9          10          11

DATE               32975       42575       42875       51775       51775       61075       61075       71475       71475       82875       82875
DEPTH             290.87      304.08       45.56      304.85       39.60      310.00       38.70      307.48       33.52      308.54       33.17
TEMP                55.4        58.1        46.4        57.2        50.0        57.2        49.1        62.6        54.5        59.2        53.6
LAB ID
LAB NUM             8880         182         183         430         431         882         883        1353        1354        2483        2482
METHOD                 3           3           3           3           3           3           3           3           3           3           3
AQUIF.LOC.             L           L           U           L           U           L           U           L           U           L           U

WET

ALUMINUM           0.600       0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
AMMONIA            0.100      -0.100       0.200       0.200       0.400       0.400       0.400       0.020       0.300       0.200       0.400
ARSENIC           -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
BICARBONAT       295.000     310.000     260.000     260.000     170.000     305.000     225.000     330.000     190.000     290.000     370.000
CADMIUM           -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010       0.010      -0.010      -0.010
CALCIUM           20.000      16.000      13.000      15.000      10.000      16.000      12.000      11.000       9.000      11.000      24.000
CARBONATE         24.000      24.000      18.000      33.000      36.000      30.000      24.000      60.000      42.000      66.000      18.000
CHLORIDE           1.400      14.000      16.000      14.000      10.000      10.000       6.900      12.000       8.200      11.000      58.000
CHROMIUM          -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
COPPER             0.090       0.100       0.100      -0.100      -0.100      -0.100      -0.010       0.200       0.800      -0.100      -0.100
FLUORIDE           1.500       1.000       0.800       1.200       0.600       1.400       0.800       5.400       0.700       2.500       1.300
HYDROXIDE          0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
IRON               1.000       1.600       7.200       1.300      12.000       2.600       7.200      16.200      16.600       7.800       9.100
LEAD               0.280       0.500       0.500       0.200       1.200      -0.100       1.100      26.000       3.800       0.700       0.900
MAGNESIUM         42.000      45.000      40.000      41.000      40.000      38.000      33.000      33.000      34.000      34.000      47.000
MERCURY           -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.002      -0.002      -0.002      -0.002
NITRATE            0.100       0.500       0.600      -0.100       1.100       0.500       0.500       0.500       0.600      -0.100       2.600
PHOSPHATE         -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100
POTASSIUM          0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
SELENIUM          -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.100      -0.010
SIL DIOXID        -0.100      -0.100      -0.100       0.800       0.800       5.700      -0.100       0.600       1.200       3.000      18.000
SODIUM           155.000     165.000     160.000     175.000     165.000     180.000     150.000     200.000     180.000     210.000     220.000
SULFATE          270.000     270.000     275.000     285.000     305.000     240.000     255.000     225.000     265.000     235.000     275.000
SULFIDE            0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
ZINC               0.020       0.200       1.000       0.200       0.500       0.200       0.300      10.000       1.300       0.200       0.400
GROS ALPHA         0.0         2.000       6.000       0.200       2.800       2.100       3.400       7.400       2.200       4.000       2.700
GROSS BETA         0.0         0.0         0.0         0.0         0.0         0.0         0.0         4.000       4.000      26.000       8.000
HARDNESS         225.000     225.000     195.000     205.000     190.000     200.000     165.000     165.000     165.000     165.000     250.000
PH                 6.600       6.400       6.800       7.200       7.200       6.900       6.600       7.500       7.300       7.400       7.200
CONDUCTANC       900.000     965.000     975.000    1000.000     960.000     950.000     915.000    1711.000    1008.000    1000.000    1020.000
DIS SOLIDS       660.000     690.000     660.000     690.000     830.000     670.000     600.000     725.000     650.000     870.000     850.000
MANGANESE          0.260       0.060       0.200      -0.050       0.200       0.080       0.200       0.300       0.700       0.100       0.200
ALKALINITY       260.000     275.000     230.000     237.000     170.000     275.000     204.000     319.000     189.000     294.000     315.000
CYANIDE           -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
BORON             -0.100       3.000       2.400       0.100       0.200       0.010       0.010       0.300       0.300       0.600       2.900
BARIUM            -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000
SILVER            -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
NICKEL             0.020       0.020       0.200      -0.100       0.020       0.020       0.020       0.020       0.020       0.010       0.020
LITHIUM            0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
TOC                0.0         9.000      10.000      18.000      18.000       7.000       9.000      19.000      16.000      33.000       9.000
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SPECTROGRAPHIC

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
ALUMINUM	0.010	0.200	0.100	0.050	0.200	0.050	0.050	0.050	0.100	0.010	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.200	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.200	0.200	0.0	0.200	0.500	0.500	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.010	0.005	0.010	0.010	0.005	0.005	0.010	0.002	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.020	0.020	0.010	0.020	0.010	0.050	0.020	0.020	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.001	0.010	0.0	0.001	0.001	0.010	0.001	0.010	0.001	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.005	0.001	0.001	0.001	0.0	0.001	0.001	0.005	0.005	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.001	0.005	0.0	0.001	0.0	0.0	0.001	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	2.000	2.000	2.000	1.000	0.100	1.000	0.100	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.300	0.0	0.100	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	-0.500	2.000	5.000	5.000	2.000	5.000	5.000	2.000	2.000	2.000	2.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	10.000	5.000	5.000	10.000	5.000	10.000	10.000	5.000

NNN-J23-0000

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SAMPLES           1         2         3         4         5         6         7         8         9        10        11

STRONTIUM      0.100     0.100     0.100     0.100     0.100     0.100     0.100     0.100     0.100     0.100     0.100
TANTALUM       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
TERBIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
THALLIUM       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
THORIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
THULIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
TIN            0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
TITANIUM       0.010     0.001     0.001     0.001     0.0       0.0       0.001     0.001     0.001     0.0       0.0
TUNGSTEN       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
URANIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
VANADIUM       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
YTTERBIUM      0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
YTTRIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
ZINC           0.0       0.0       0.0       0.0       0.001     0.0       0.0       0.001     0.0       0.0       0.0
ZIRCONIUM      0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
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NNN-J23-0000

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12/29/75                                  WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID CE 701

JOB#-741-40          OWNER-CAMERON                     LOCATIONS: X- 151658.91 Y- 230034.80 Z-    6997.26
DATE DRILL COMPL- 62072  DATE CONV TO MONITOR-100874  AQUIFER 1:  220.00- 310.00FT  AQUIFER 2:  940.00-1020.00FT


SAMPLES                1           2

DATE               32475       42975
DEPTH             134.81      132.02
TEMP                51.8        52.0
LAB ID
LAB NUM             8153        9780
METHOD                 3           3
AQUIF.LOC.             U           U

WET

ALUMINUM          0.370       0.0
AMMONIA           1.000       0.250
ARSENIC          -0.010      -0.010
BICARBONAT      190.000     120.000
CADMIUM           0.004      -0.010
CALCIUM          48.000      62.000
CARBONATE        -0.100       6.000
CHLORIDE         27.000      21.000
CHROMIUM         -0.010      -0.010
COPPER            0.010       0.030
FLUORIDE          0.400       0.200
HYDROXIDE         0.0         0.0
IRON              0.410       0.310
LEAD              0.003       0.080
MAGNESIUM        27.000      12.000
MERCURY           0.045      -0.010
NITRATE           0.200       3.000
PHOSPHATE         0.100      -0.100
POTASSIUM         0.0         0.0
SELENIUM         -0.010      -0.010
SIL DIOXID       24.000      30.000
SODIUM          190.000     155.000
SULFATE         410.000     360.000
SULFIDE           0.0         0.0
ZINC              0.028       0.070
GROS ALPHA        6.100       0.0
GROSS BETA       13.000       0.0
HARDNESS        230.000     205.000
PH                6.000       6.000
CONDUCTANC     1100.000    1120.000
DIS SOLIDS      820.000     710.000
MANGANESE         0.150       0.040
ALKALINITY      155.000     104.900
CYANIDE          -0.010      -0.010
BORON            -0.010       0.200
BARIUM           -1.000      -1.000
SILVER            0.001       0.050
NICKEL           -0.001       0.020
LITHIUM           0.0         0.0
TOC               0.0         4.000
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SAMPLES	1	2
SPECTROGRAPHIC		
ALUMINUM	0.100	0.100
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.0	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.100	0.500
CADMIUM	0.0	0.0
CALCIUM	99999.000	99999.000
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBOLT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.001	0.001
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.100	0.100
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.100	0.010
LUTETIUM	0.0	0.0
MAGNESIUM	99999.000	99999.000
MANGANESE	0.010	0.001
MERCURY	0.0	0.0
MOLYBDENUM	0.0	0.010
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0
PLATINUM	0.0	0.0
POTASSIUM	2.000	1.000
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.0
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	10.000	2.000
SILVER	0.0	0.0
SODIUM	99999.000	10.000

SAMPLES	1	2
STRONTIUM	0.100	0.100
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.0	0.001
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

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JOB#-                OWNER-CAMERON                  LOCATIONS: X- 163314.66 Y- 228928.97 Z-    6656.30
DATE DRILL COMPL- 82972  DATE CONV TO MONITOR-112674  AQUIFER 1:  350.00- 440.00FT  AQUIFER 2: 1375.00-1540.00FT


SAMPLES             1         2         3         4         5         6         7         8         9        10        11        12

DATE            32175     32175     42175     42175     51875     51875     61075     61075     71475     71475     82975     82975
DEPTH           49.00     23.79     51.10     39.07     51.28     36.71     41.00     52.90     38.13     51.61     51.85     39.05
TEMP             63.0      61.7      61.7      61.7      62.1      60.8      59.4      60.8      72.5      66.9      68.0      75.2
LAB ID
LAB NUM          8306      8307      9782      9781       355       354       757       758      1221      1222      2484      2485
METHOD              3         3         3         3         3         3         3         3         3         3         3         3
AQUIF.LOC.          U         L         U         L         U         L         L         U         L         U         U         L

WET

ALUMINUM        0.080    -0.010     0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
AMMONIA         0.420     0.420     1.800     1.500     1.800     1.600     1.100     1.200     0.900     0.900     0.300     1.000
ARSENIC        -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010
BICARBONAT   2415.000  2780.000  2590.000  2770.000  2390.000  1750.000  2390.000  2100.000  2650.000  2760.000  2410.000  2820.000
CADMIUM        -0.010    -0.010    -0.010    -0.010    -0.010    -0.010     0.010     0.010    -0.010    -0.010    -0.010     0.010
CALCIUM         7.000     3.700     7.400     3.300     4.900     1.600     0.800     4.900     6.600    15.000     8.200     5.700
CARBONATE     190.000   340.000   140.000   300.000   255.000   690.000   710.000   335.000   360.000   100.000    66.000   235.000
CHLORIDE       52.000    49.000    65.000    61.000    59.000    67.000    59.000    55.000    14.000    69.000    51.000    62.000
CHROMIUM       -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010
COPPER         -0.010    -0.010     0.070     0.040    -0.100    -0.100    -0.100    -0.100    -0.100    -0.100     0.100    -0.100
FLUORIDE       25.000    40.000    26.000    24.000    25.000    30.000    34.000    26.000    30.000    30.000    27.000    29.000
HYDROXIDE       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
IRON           -0.050    -0.050     1.800     0.720    -0.050     1.800     1.400     3.100     1.400     7.000     9.000     1.400
LEAD            0.020     0.020     0.300     0.900     0.100     0.600     0.200     0.100     0.100     0.300     1.200     0.800
MAGNESIUM       3.500     3.600     5.200     2.900     9.700     6.800     5.400     7.700     3.800     6.600     9.600     2.400
MERCURY        -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.002    -0.002    -0.002    -0.002
NITRATE        -0.010     0.740     0.200     0.100     1.700     0.200     0.300     0.700     0.400     0.200    -0.100     0.200
PHOSPHATE       0.350     0.500    -0.100     0.300    -0.100     0.300     0.400    -0.100     0.400    -0.100     0.100     0.700
POTASSIUM       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
SELENIUM       -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010
SIL DIOXID      9.300     4.400    27.000    11.000    18.000    10.000    11.000    19.000    14.000    20.000    17.000    14.000
SODIUM       1100.000  1380.000  1170.000  1360.000  1170.000  1250.000  1560.000  1080.000  1340.000  1090.000  1030.000  1320.000
SULFATE        -4.000    -4.000    72.000    75.000    50.000    60.000    30.000    30.000   100.000   100.000    30.000    15.000
SULFIDE         0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
ZINC            0.150     0.640     1.000     0.900     0.600     1.100    66.000     0.700     0.300     0.700     0.030     0.900
GROS ALPHA      6.500    17.000     0.0       3.500     9.800    14.000    12.000    10.000    12.000    22.000    18.000    27.000
GROSS BETA      0.0      30.000     0.0       0.0       0.0       0.0       0.0       0.0      49.000    73.000    19.000     8.000
HARDNESS       32.000    24.000    40.000    20.000    52.000    32.000    24.000    44.000    32.000    64.000    60.000    24.000
PH              8.000     8.800     7.400     8.000     7.600     8.000     8.600     7.400     8.200     7.600     7.400     8.500
CONDUCTANC   4080.000  4850.000  4000.000  4800.000  3920.000  4800.000  5180.000  4200.000  4200.000  3815.000  3740.000  4000.000
DIS SOLIDS   2570.000  3180.000  2780.000  3200.000  2760.000  2980.000  3640.000  2590.000  3170.000  2790.000  2430.000  3070.000
MANGANESE      -0.050    -0.050     0.020    -0.050    -0.050    -0.050    -0.050    -0.050    -0.050     0.080     0.090    -0.050
ALKALINITY   2135.000  2850.000  2235.000  2515.000  2170.000  1995.000  2540.000  1975.000  2163.000  2343.000  2024.000  2500.000
CYANIDE        -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010    -0.010
BORON           3.100     3.700     3.300     0.560     4.300     3.000     3.400     3.200     3.000     3.900     2.800     2.200
BARIUM         -1.000    -1.000    -1.000    -1.000    -1.000    -1.000    -1.000    -1.000    -1.000    -1.000    -1.000    -1.000
SILVER         -0.010    -0.010     0.060    -0.010    -0.010    -0.010    -0.010    -0.100    -0.010    -0.010    -0.010    -0.010
NICKEL          0.010     0.010     0.040     0.050     0.030     0.020     0.060     0.040     0.010     0.010     0.030     0.040
LITHIUM         0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
TOC             0.0       0.0       8.000    14.000    13.000    14.000    11.000    13.000     7.000     6.000    14.000    26.000
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SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.010	0.500	0.050	0.001	0.010	0.100	0.100	0.100	0.010	0.010	0.200	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.200	0.100	0.500	0.500	0.500	0.200	0.500	0.100	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	10.000	99999.000	1.000	2.000	5.000	2.000	2.000	5.000	0.100	1.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.010	0.0	0.0	0.0	0.0	0.001	0.001	0.001	0.001	0.005	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.500	0.010	0.050	0.010	0.050	0.050	0.010	0.010	0.020	0.050	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.010	0.010	0.010	0.010	0.010	0.0	0.0	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	10.000	99999.000	1.000	1.000	1.000	1.000	1.000	1.000	0.100	0.100	99999.000	99999.000
MANGANESE	0.001	0.020	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.005	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	5.000	1.000	1.000	1.000	2.000	2.000	2.000	0.100	1.000	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.100	0.0	0.500	0.400	0.900	0.200	0.100	0.700
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	5.000	2.000	5.000	5.000	5.000	2.000	2.000	1.000	5.000	5.000
SILVER	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	10.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.100	0.100	0.010	0.010	0.010	0.010	0.010	0.010	0.0	0.0	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.010	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WNN-J23-0000

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JOB#-               OWNER-CAMERON                          LOCATIONS: X- 158619.60 Y- 223358.84 Z-    6741.20
DATE DRILL COMPL- 73172  DATE CONV TO MONITOR-101874  AQUIFER 1:  220.00- 440.00FT  AQUIFER 2:  820.00-1100.00FT


SAMPLES               1

DATE              42575
DEPTH             27.88
TEMP               50.0
LAB ID
LAB NUM            9784
METHOD                3
AQUIF.LOC.            U

WET

ALUMINUM        0.0
AMMONIA           0.250
ARSENIC          -0.010
BICARBONAT      340.000
CADMIUM          -0.010
CALCIUM          38.000
CARBONATE        36.000
CHLORIDE          4.300
CHROMIUM         -0.010
COPPER            0.040
FLUORIDE          0.900
HYDROXIDE       0.0
IRON              1.400
LEAD              0.100
MAGNESIUM        56.000
MERCURY          -0.010
NITRATE           0.150
PHOSPHATE        -0.100
POTASSIUM       0.0
SELENIUM         -0.010
SIL DIOXID        9.400
SODIUM          150.000
SULFATE         270.000
SULFIDE         0.0
ZINC              0.130
GROS ALPHA        1.700
GROSS BETA      0.0
HARDNESS        325.000
PH                6.400
CONDUCTANC     1120.000
DIS SOLIDS      730.000
MANGANESE         0.240
ALKALINITY      310.000
CYANIDE          -0.010
BORON            -0.100
BARIUM           -1.000
SILVER            0.080
NICKEL            0.030
LITHIUM         0.0
TOC               4.000
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SAMPLES              1


SPECTROGRAPHIC

ALUMINUM        0.500
ANTIMONY        0.0
ARSENIC         0.0
BARIUM          0.0
BERYLIUM        0.0
BISMUTH         0.0
BORON           0.500
CADMIUM         0.0
CALCIUM     99999.000
CERIUM          0.0
CESIUM          0.0
CHROMIUM        0.0
COBOLT          0.0
COLUMBIUM       0.0
COPPER          0.001
DYSPROSIUM      0.0
ERBIUM          0.0
EUROPIUM        0.0
GADOLINIUM      0.0
GALLIUM         0.0
GERMANIUM       0.0
GOLD            0.0
HAFNIUM         0.0
HOLMIUM         0.0
INDIUM          0.0
IRIDIUM         0.0
IRON            0.020
LANTHANUM       0.0
LEAD            0.0
LITHIUM         0.001
LUTETIUM        0.0
MAGNESIUM   99999.000
MANGANESE       0.001
MERCURY         0.0
MOLYBDENUM      0.010
NEODYMIUM       0.0
NICKEL          0.0
OSMIUM          0.0
PALLADIUM       0.0
PLATINUM        0.0
POTASSIUM       2.000
PRASEODYMI      0.0
RADIUM          0.0
RHENIUM         0.0
RHODIUM         0.0
RUBIDIUM        0.0
RUTHENIUM       0.0
SAMARIUM        0.0
SCANDIUM        0.0
SELENIUM        0.0
SILICON         2.000
SILVER          0.0
SODIUM          5.000
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NNN-J23-0000

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SAMPLES             1

STRONTIUM        0.100
TANTALUM         0.0
TERBIUM          0.0
THALLIUM         0.0
THORIUM          0.0
THULIUM          0.0
TIN              0.0
TITANIUM         0.010
TUNGSTEN         0.0
URANIUM          0.0
VANADIUM         0.0
YTTERBIUM        0.0
YTTRIUM          0.0
ZINC             0.001
ZIRCONIUM        0.0
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NNN-J23-0000

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12/29/75                                         WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID CE 707                                  PAGE  16

JOB#-               OWNER-CAMERON                          LOCATIONS: X- 152519.20 Y- 226697.70 Z-    7181.91
DATE DRILL COMPL- 81472  DATE CONV TO MONITOR-102474  AQUIFER 1:  200.00- 560.00FT  AQUIFER 2: 1040.00-1360.00FT


SAMPLES             1          2          3          4          5          6          7          8

DATE            33175      42675      51575      61075      71475      71475      83075      83075
DEPTH          267.14     263.33     262.84     264.50     565.21     262.31     261.03     567.10
TEMP             51.8       53.6       53.6       52.7       62.2       55.4       56.3       61.2
LAB ID
LAB NUM          8692       9786        357        760       1223       1224       2486       2487
METHOD              3          3          3          3          3          3          3          3
AQUIF.LOC.          U          U          U          U          L          U          U          L

WET

ALUMINUM       -0.100     0.0        0.0        0.0        0.0        0.0        0.0        0.0
AMMONIA         0.200      0.120      0.300      0.200      0.700      0.200      0.300      9.600
ARSENIC        -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT    660.000    560.000    700.000    640.000   1330.000    645.000    650.000    610.000
CADMIUM        -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM       150.000    155.000    185.000    170.000     15.000    145.000    105.000      8.200
CARBONATE      -0.100     -0.100     -0.100     -0.100     78.000     -0.100     -0.100     43.000
CHLORIDE        9.700     11.000     14.000      6.900     41.000     21.000     14.000     11.000
CHROMIUM       -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
COPPER         -0.010     -0.010     -0.100     -0.100     -0.100     -0.100     -0.100     -0.100
FLUORIDE        0.100      0.100      0.200      0.100     30.000      0.300      0.200      4.600
HYDROXIDE       0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRON           -0.050      1.400     -0.050      8.100      2.500      8.300      8.800      6.000
LEAD            0.160      0.140      0.060      0.030      0.060      0.020      0.400      0.900
MAGNESIUM      55.000     40.000      7.900     48.000     13.000     23.000     31.000     17.000
MERCURY        -0.010     -0.010     -0.010     -0.010     -0.002     -0.002     -0.002     -0.002
NITRATE        -0.100      4.300      0.400      0.600      2.000      1.600      0.200      0.200
PHOSPHATE      -0.100     -0.100      0.100     -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM       0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM       -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID     57.000     55.000     53.000     54.000     13.000     49.000     54.000      6.000
SODIUM        180.000    160.000    250.000    170.000    650.000    250.000    290.000    285.000
SULFATE       345.000    330.000    385.000    330.000    125.000    350.000    370.000    105.000
SULFIDE         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
ZINC           -0.010      0.050      0.020     -0.100      0.100      0.500      0.100      0.200
GROS ALPHA      0.0        0.700      6.000      1.800      6.800      8.900      2.200      1.500
GROSS BETA      0.0        0.0        0.0        0.0        0.0        0.0        0.0       15.000
HARDNESS      610.000    550.000    495.000    615.000     92.000    450.000    390.000     92.000
PH              6.400      6.500      6.600      6.400      7.200      6.800      6.200      6.600
CONDUCTANC   1320.000   1560.000   1440.000   1510.000   1829.000   1472.000   1420.000    920.000
DIS SOLIDS   1120.000   1030.000   1420.000   1100.000   1620.000   1160.000    820.000    790.000
MANGANESE       0.150      0.070     -0.050      0.070      0.070      0.090      0.100      0.200
ALKALINITY    540.000    460.000    575.000    525.000   1154.000    530.000    530.000    539.000
CYANIDE        -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BORON           0.400      1.700      1.000      0.200      1.500      0.500      0.600      0.400
BARIUM         -1.000     -1.000     -1.000     -1.000     -1.000     -1.000     -1.000     -1.000
SILVER          0.100     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
NICKEL          0.030      0.030      0.010      0.020      0.010      0.010      0.020     -0.010
LITHIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
TOC             0.0        5.000      8.000      4.000     17.000      7.000      9.000      8.000
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NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.100	1.000	0.100	0.100	0.001	0.100	0.050	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.100	0.200	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	1.000	99999.000	99999.000	10.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.010	0.001	0.001	0.010	0.010	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.010	0.010	0.010	0.010	0.050	0.020	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.001	0.0	0.001	0.010	0.001	0.010	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	0.100	99999.000	99999.000	5.000
MANGANESE	0.200	0.001	0.001	0.0	0.0	0.001	0.010	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.010	0.0	0.001	0.0	0.001	0.001	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	1.000	0.100	1.000	1.000	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.090	0.100	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	2.000	2.000	5.000	5.000	5.000
SILVER	0.001	0.0	0.0	0.0	0.0	0.0	0.000	0.0
SODIUM	99999.000	5.000	2.000	5.000	99999.000	5.000	10.000	99999.000

SAMPLES	1	2	3	4	5	6	7	8
STRONTIUM	0.001	0.100	0.100	0.100	0.0	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.001	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.010	0.0	0.001	0.0	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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12/29/75                         WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID CE 708                                PAGE  19

JOB#-           OWNER-CAMERON                     LOCATIONS: X- 152468.20 Y- 224462.00 Z-   6917.86
DATE DRILL COMPL- 73072  DATE CONV TO MONITOR-102374  AQUIFER 1:  150.00- 300.00FT  AQUIFER 2:  800.00- 880.00FT


SAMPLES                1           2           3           4           5           6           7           8           9          10          11          12

DATE               32375       32375       42275       42275       51875       51875       61075       61075       71475       71475       82775       82775
DEPTH              53.96      280.08      296.60       53.82      294.25       52.93      297.50       51.00       46.45      295.70       45.49      296.44
TEMP                51.8        54.5        57.2        54.2        56.3        53.6        56.8        53.4        54.5        59.9        52.0        57.6
LAB ID
LAB NUM             8163        8164        9787        9788         358         359         761         762        1226        1225        2488        2489
METHOD                 3           3           3           3           3           3           3           3           3           3           3           3
AQUIF.LOC.             U           L           L           U           L           U           L           U           U           L           U           L

WET

ALUMINUM           1.000       0.110       0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
AMMONIA            0.850       2.000      -0.100       0.200       0.300       0.200       0.200       0.200       0.400       0.500       0.300       0.200
ARSENIC           -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
BICARBONAT       560.000     525.000     440.000     530.000     480.000     575.000     380.000     380.000     545.000     370.000     500.000     450.000
CADMIUM           -0.001       0.006      -0.010      -0.010      -0.010      -0.010      -0.010       0.010      -0.010      -0.010      -0.010      -0.010
CALCIUM          150.000      30.000      37.000     135.000      22.000      52.000      20.000     115.000      66.000      17.000      39.000      14.000
CARBONATE         -0.100      -0.100      24.000      -0.100      29.000      -0.100      78.000      78.000      -0.100      78.000      -0.100      36.000
CHLORIDE          11.000      11.000       8.600      11.000      11.000      12.000       6.900      14.000      14.000      14.000       8.500       5.600
CHROMIUM          -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
COPPER             0.030       0.020      -0.010      -0.010      -0.100      -0.100      -0.100       0.100      -0.100      -0.100      -0.100      -0.100
FLUORIDE           3.600       4.000       1.800       0.400       2.300       0.400       2.800       0.200       0.500       4.300       0.300       3.300
HYDROXIDE          0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
IRON               3.400       3.000       0.660       0.910       1.200       2.500       2.200       8.800       8.900       7.600       8.700       4.500
LEAD               0.003       0.004       0.100       0.110       0.060       0.600       0.060       0.060       0.200       0.600       0.800       0.300
MAGNESIUM         36.000      33.000      20.000      46.000      23.000      82.000      20.000      29.000      62.000      13.000      54.000      14.000
MERCURY            0.005       0.001      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.002      -0.002      -0.002      -0.002
NITRATE            0.300      -0.100       0.300       0.500       1.400      -0.100       0.200       0.200       0.300       0.900       0.300       0.100
PHOSPHATE         -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100      -0.100
POTASSIUM          0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
SELENIUM          -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
SIL DIOXID        36.000      11.000      13.000       4.700      13.000      48.000      13.000      43.000      43.000      14.000      36.000      13.000
SODIUM           200.000     210.000     180.000     130.000     225.000     210.000     225.000     190.000     200.000     245.000     210.000     215.000
SULFATE          410.000     190.000     170.000     310.000     160.000     360.000     125.000     285.000     300.000     130.000     305.000     100.000
SULFIDE            0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
ZINC              -0.100       0.200       0.060       0.040       0.100       0.100       0.100       0.200       0.100       2.100       0.500       0.100
GROS ALPHA         1.200       1.500       0.0         0.900       0.500       4.500       3.900       1.400       0.800       1.700       2.200       3.400
GROSS BETA         0.0        19.000       0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         2.000      30.000
HARDNESS         520.000     210.000     175.000     520.000     150.000     465.000     130.000     410.000     420.000      96.000     320.000      92.000
PH                 6.400       6.000       6.600       6.400       6.800       6.800       7.000       6.200       6.900       7.100       6.800       7.000
CONDUCTANC      1360.000    1050.000    1100.000    1400.000    1010.000    1300.000    1020.000    1350.000    1365.000     979.000    1120.000     940.000
DIS SOLIDS      1120.000     750.000     670.000     900.000     720.000    1050.000     680.000     950.000     960.000     750.000     910.000     630.000
MANGANESE          0.190       0.120       0.050       0.070      -0.050      -0.010       0.050       0.100       0.100       0.070       0.300       0.090
ALKALINITY       460.000     430.000     380.000     435.000     419.000     470.000     374.000     374.000     445.000     869.000     410.000     399.000
CYANIDE           -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
BORON             -0.010      -0.010       1.900       0.470       0.900       0.400       0.400       0.200       0.400       0.200       0.200       0.200
BARIUM            -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000      -1.000
SILVER             0.001      -0.001      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010      -0.010
NICKEL            -0.001      -0.001       0.030       0.020       0.030       0.010      -0.010       0.020      -0.010      -0.010       0.020       0.010
LITHIUM            0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0
TOC                0.0         0.0         4.000       7.000       7.000       5.000       3.000       4.000      19.000       7.000      20.000      10.000
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NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	0.500	1.000	1.000	1.000	0.010	0.500	0.100	0.010	0.010	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.010	0.0	0.001	0.0	0.001	0.0	0.010	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.100	0.500	0.500	0.500	1.000	0.200	0.500	0.200	0.500	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.010	0.010	0.005	0.020	0.010	0.005	0.005	0.001	0.010	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	1.000	0.100	0.050	0.500	0.050	0.200	0.010	0.500	0.100	0.010	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.001	0.001	0.001	0.010	0.010	0.0	0.001	0.0	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
MANGANESE	0.020	0.010	0.005	0.010	0.010	0.010	0.0	0.001	0.001	0.001	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.005	0.001	0.001	0.010	0.010	0.010	0.0	0.001	0.001	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	5.000	0.100	1.000	1.000	0.100	2.000	0.100	0.100	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	2.000	5.000	5.000	5.000	5.000	2.000	2.000	2.000	2.000
SILVER	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	10.000	5.000	2.000	5.000	10.000	5.000	99999.000	2.000	2.000	10.000	10.000	10.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.005	0.005	0.001	0.005	0.010	0.020	0.001	0.010	0.001	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.001	0.001	0.010	0.010	0.0	0.001	0.001	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID CE 709

JOB#- OWNER-CAMERON LOCATIONS: X- 157063.10 Y- 227185.70 Z- 6771.00
DATE DRILL COMPL- 91072 DATE CONV TO MONITOR-110174 AQUIFER 1: 120.00- 510.00FT AQUIFER 2: 980.00-1260.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	32975	42275	51875	61075	71475	71475	82775	82775
DEPTH	53.25	53.82	52.93	47.30	152.03	44.89	42.95	153.00
TEMP	46.9	50.9	49.1	48.7	57.6	50.9	50.5	53.2
LAB ID								
LAB NUM	8694	9790	361	764	1227	1228	2490	2491
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L
WET								
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.200	-0.100	0.200	0.200	0.500	0.400	0.200	0.500
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	470.000	450.000	520.000	340.000	840.000	420.000	490.000	610.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	66.000	59.000	48.000	76.000	9.000	60.000	53.000	8.200
CARBONATE	-0.100	-0.100	-0.100	54.000	96.000	42.000	-0.100	90.000
CHLORIDE	-1.000	14.000	12.000	14.000	14.000	21.000	1.300	8.500
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.100	0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.160	0.300	0.200	0.200	13.000	0.200	0.200	9.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.220	1.600	3.000	7.900	1.700	8.200	8.600	6.600
LEAD	0.320	0.270	0.400	0.300	0.100	0.200	0.500	0.400
MAGNESIUM	74.000	81.000	73.000	70.000	12.000	86.000	56.000	14.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	0.550	-0.100	0.200	0.300	0.300	0.600	1.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	30.000	17.000	30.000	17.000	16.000	33.000	32.000	17.000
SODIUM	130.000	120.000	190.000	140.000	430.000	150.000	200.000	310.000
SULFATE	315.000	290.000	360.000	370.000	65.000	300.000	340.000	50.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.020	0.170	0.100	5.500	0.100	1.200	0.300	0.500
GROS ALPHA	0.0	0.0	2.900	3.100	1.500	6.500	5.400	6.600
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.000
HARDNESS	470.000	480.000	420.000	475.000	72.000	505.000	365.000	76.000
PH	6.400	6.200	6.400	6.200	7.400	7.000	6.400	7.400
CONDUCTANC	1170.000	1180.000	1260.000	1230.000	1557.000	1541.000	1230.000	1175.000
DIS SOLIDS	850.000	800.000	970.000	910.000	1070.000	910.000	930.000	810.000
MANGANESE	-0.050	0.160	-0.050	0.200	-0.050	0.100	0.200	0.070
ALKALINITY	385.000	370.000	425.000	324.000	268.000	379.000	400.000	574.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.200	2.100	0.400	-0.010	0.900	1.600	0.500	0.500
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.040	0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.030	0.020	0.010	0.010	-0.010	0.010	0.010	0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	7.000	7.000	8.000	14.000	14.000	14.000	8.000

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.100	0.100	1.000	0.100	0.010	0.100	0.050	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.200	0.200	0.500	0.500	0.100
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	99999.000	1.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.010	0.0	0.010	0.005	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	0.500	0.200	0.020	0.010	0.200	0.010	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.001	0.0	0.001	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	1.000	99999.000	99999.000	99999.000
MANGANESE	0.100	0.005	0.010	0.001	0.0	0.005	0.001	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.0	0.010	0.0	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	1.000	0.100	0.100	1.000	1.000	0.100	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.100
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	5.000	5.000	5.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	2.000	2.000	99999.000	5.000	5.000	5.000

SAMPLES	1	2	3	4	5	6	7	8
STRONTIUM	0.0	0.100	0.100	0.100	0.0	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.010	0.001	0.0	0.001	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

12/29/75 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-1

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 149539.50 Y- 227281.60 Z- 7247.00
DATE DRILL COMPL- 82474 DATE CONV TO MONITOR-111274 AQUIFER 1: 260.00- 450.00FT AQUIFER 2: 900.00-1230.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	33175	42675	51575	61075	71775	71775	71775	83075	83075
DEPTH	245.59	245.89	245.71	246.30	245.99	602.19	245.99	244.44	602.52
TEMP	51.8	53.6	54.5	53.4	55.4	64.4	56.3	56.8	64.8
LAB ID									
LAB NUM	8696	9792	363	766	1230	1231	1232	2492	2565
METHOD	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	U	L	U	U	L
WET									
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.550	0.200	0.200	0.300	0.600	0.200	0.200	0.600
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	445.000	440.000	490.000	400.000	450.000	1010.000	490.000	500.000	1000.000
CADMIUM	-0.010	-0.010	-0.010	0.100	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	34.000	120.000	140.000	87.000	59.000	28.000	62.000	33.000	19.000
CARBONATE	-0.100	-0.100	-0.100	54.000	18.000	66.000	-0.100	-0.100	48.000
CHLORIDE	8.300	2.800	14.000	6.900	21.000	41.000	14.000	7.000	34.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.200	0.300	0.200	0.200	0.200	17.000	0.300	0.300	22.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.230	5.000	4.800	8.500	8.600	0.800	8.200	7.700	1.400
LEAD	0.060	-0.010	0.070	0.080	0.200	0.100	0.200	0.300	0.400
MAGNESIUM	54.000	38.000	46.000	50.000	54.000	28.000	48.000	62.000	33.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	0.300	0.100	0.200	0.300	0.500	0.400	1.000	0.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	32.000	32.000	32.000	35.000	46.000	16.000	38.000	41.000	16.000
SODIUM	160.000	110.000	140.000	155.000	195.000	480.000	190.000	220.000	420.000
SULFATE	225.000	285.000	350.000	275.000	290.000	145.000	280.000	345.000	120.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.010	0.170	-0.100	3.600	0.100	0.200	0.200	0.100	0.100
GROS ALPHA	0.0	0.0	8.900	5.400	4.000	8.700	3.300	10.000	3.300
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.000
HARDNESS	310.000	455.000	540.000	465.000	370.000	185.000	350.000	335.000	185.000
PH	6.400	6.400	7.000	6.400	6.800	7.200	6.800	6.400	7.100
CONDUCTANC	1110.000	1390.000	1210.000	1375.000	1216.000	1955.000	1219.000	1195.000	1970.000
DIS SOLIDS	730.000	810.000	970.000	870.000	910.000	1320.000	880.000	960.000	1240.000
MANGANESE	0.300	0.170	-0.050	0.200	0.100	-0.050	0.100	0.090	-0.050
ALKALINITY	365.000	360.000	400.000	369.000	385.000	879.000	400.000	410.000	859.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.300	0.100	3.200	0.200	0.200	1.200	0.700	0.100	2.400
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-0.100	-1.000	-1.000
SILVER	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.010	0.020	0.020	0.010	-0.010	0.030	0.010	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	5.000	10.000	4.000	8.000	8.000	22.000	10.000	6.000

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.100	0.500	0.010	0.500	0.010	0.010	0.100	0.010	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.100	0.500	0.500	0.200	0.500	0.200	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.001	0.005	0.010	0.001	0.001	0.001	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	1.000	0.020	0.010	0.200	0.020	0.050	0.010	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.050	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.001
LITHIUM	0.0	0.0	0.001	0.001	0.0	0.010	0.0	0.0	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	2.000	99999.000	10.000	99999.000
MANGANESE	0.0	0.100	0.010	0.0	0.005	0.001	0.001	0.001	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.020	0.0	0.0	0.001	0.0	0.0	0.001	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	0.100	0.500	0.100	0.100	1.000	0.100	1.000	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.800	0.200	0.0	0.0	0.0	0.200	0.200
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	20.000	2.000	5.000	5.000	5.000	2.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
SODIUM	99999.000	99999.000	5.000	5.000	2.000	99999.000	2.000	10.000	5.000

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.010	0.0	0.001	0.010	0.0	0.010	0.005	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-2-3

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 154518.60 Y- 229396.90 Z- 6876.00
DATE DRILL COMPL- 81074 DATE CONV TO MONITOR-111174 AQUIFER 1: 180.00- 470.00FT AQUIFER 2: 920.00-1200.00FT

SAMPLES	1	2	3	4	5	6
DATE	42975	51875	61075	71275	83075	83075
DEPTH	112.22	110.91	111.20	252.52	105.16	248.55
TEMP	51.8	51.8	52.2	62.6	55.4	63.5
LAB ID						
LAB NUM	9795	365	763	1233	2566	2567
METHOD	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	L
WET						
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.200	0.100	0.400	0.200	0.700
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	445.000	480.000	285.000	1320.000	355.000	730.000
CADMIUM	-0.010	-0.010	0.010	-0.010	-0.010	-0.010
CALCIUM	35.000	95.000	24.000	5.700	16.000	6.000
CARBONATE	54.000	43.000	115.000	60.000	48.000	60.000
CHLORIDE	8.600	14.000	6.900	27.000	2.700	9.500
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	0.100	-0.100	0.100
FLUORIDE	0.400	0.400	0.800	11.000	0.500	23.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0
IRON	2.100	2.000	3.500	2.400	3.100	2.000
LEAD	0.100	0.070	0.100	0.600	0.300	0.900
MAGNESIUM	77.000	40.000	79.000	6.200	72.000	12.000
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002
NITRATE	0.400	-0.100	0.400	0.200	0.200	1.200
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	14.000	13.000	11.000	11.000	13.000	6.600
SODIUM	195.000	210.000	175.000	580.000	160.000	345.000
SULFATE	300.000	340.000	265.000	50.000	290.000	30.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	1.000	1.100	3.400	0.500	6.800	0.500
GROS ALPHA	1.300	1.000	5.800	6.100	3.200	6.800
GROSS BETA	0.0	0.0	0.0	0.0	4.000	19.000
HARDNESS	405.000	400.000	385.000	48.000	340.000	64.000
PH	6.400	7.400	7.000	7.400	6.800	7.000
CONDUCTANC	1290.000	970.000	1260.000	1013.000	1150.000	1660.000
DIS SOLIDS	1150.000	990.000	820.000	1400.000	780.000	850.000
MANGANESE	0.060	-0.050	0.070	-0.050	0.090	-0.050
ALKALINITY	409.000	425.000	326.000	1129.000	329.000	605.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.120	-0.010	0.300	1.100	0.700	1.300
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.030	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.030	0.020	0.020	0.020	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0
TOC	6.000	9.000	9.000	8.000	10.000	9.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-2-3

SAMPLES	1	2	3	4	5	6
SPECTROGRAPHIC						
ALUMINUM	0.100	0.050	0.100	0.010	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.001
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	1.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.010	0.0	0.010	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.010	0.010	0.020	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.010	0.0	0.001	0.0	0.0	0.0
LITHIUM	0.0	0.001	0.010	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	1.000	99999.000	99999.000
MANGANESE	0.100	0.0	0.001	0.0	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.0	0.0	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.500	1.000	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.300	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	2.000	5.000	2.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	10.000	99999.000	10.000	10.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-2-3

SAMPLES	1	2	3	4	5	6
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.0	0.001	0.0	0.001	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0

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12/29/75                         WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-4-5                            PAGE  31

JOB#-741-40         OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 160240.80 Y- 228513.90 Z-    6719.00
DATE DRILL COMPL- 90174  DATE CONV TO MONITOR-111574  AQUIFER 1:  220.00- 650.00FT  AQUIFER 2: 1050.00-1400.00FT


SAMPLES               1          2          3          4          5          6

DATE              32275      33175      71475      71475      82775      82775
DEPTH             74.77      74.90      96.39      75.70      75.25      97.08
TEMP               52.7        0.0       62.6       58.1       57.4       57.6
LAB ID
LAB NUM            8311       8698       1235       1236       2568       2569
METHOD                3          3          3          3          3          3
AQUIF.LOC.            U          U          L          U          U          L

WET

ALUMINUM          0.590     -0.100      0.0        0.0        0.0        0.0
AMMONIA           1.800      0.200      0.600      0.500      0.500      0.900
ARSENIC          -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT      510.000    605.000   1530.000    450.000    360.000    520.000
CADMIUM          -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM          16.000     28.000     11.000     18.000     16.000      8.200
CARBONATE        -0.100     -0.100     60.000     18.000     27.000     60.000
CHLORIDE         -1.000      9.700     18.000      9.600      1.400      8.200
CHROMIUM         -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
COPPER           -0.010     -0.010      0.100     -0.100     -0.100      0.100
FLUORIDE         60.000      0.480     14.000      2.000      2.100     15.000
HYDROXIDE         0.0        0.0        0.0        0.0        0.0        0.0
IRON              0.070      0.150      3.000      5.900      9.400      5.800
LEAD              0.010      0.680      0.200      0.060      0.100      0.300
MAGNESIUM        22.000     90.000     13.000     26.000     27.000     18.000
MERCURY          -0.010     -0.010     -0.002     -0.002     -0.002     -0.002
NITRATE           0.150     -0.100      0.200      0.200      0.200      0.200
PHOSPHATE         0.090     -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM         0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM         -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID       12.000     24.000     11.000     20.000     18.000      2.500
SODIUM          340.000    190.000    675.000    265.000    260.000    290.000
SULFATE         280.000    320.000    140.000    255.000    305.000    110.000
SULFIDE           0.0        0.0        0.0        0.0        0.0        0.0
ZINC              0.180      1.400      0.100      0.200      0.200      0.300
GROS ALPHA        4.700      0.0        2.000      0.800      5.800      1.500
GROSS BETA        0.0        0.0        0.0        0.0       23.000     26.000
HARDNESS        130.000    440.000     80.000    150.000    150.000     96.000
PH                6.800      8.100      7.400      7.100      7.000      7.200
CONDUCTANC     1425.000   1480.000   2242.000   1240.000   1270.000   2160.000
DIS SOLIDS      980.000    960.000   1690.000    840.000    840.000    770.000
MANGANESE         0.060      0.520     -0.050      0.220      0.200      0.100
ALKALINITY      420.000    495.000   1299.000    385.000    317.000    474.000
CYANIDE          -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BORON             0.100      1.200      0.800      0.200      0.800      0.800
BARIUM           -1.000     -1.000     -0.100     -1.000     -1.000     -1.000
SILVER           -0.010      0.080     -0.010     -0.010     -0.010     -0.010
NICKEL           -0.010      0.030      0.020      0.010      0.020      0.020
LITHIUM           0.0        0.0        0.0        0.0        0.0        0.0
TOC               0.0        0.0       16.000      9.000      8.000     12.000
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NNN-J23-0000

SAMPLES	1	2	3	4	5	6
SPECTROGRAPHIC						
ALUMINUM	0.100	0.010	0.001	0.001	0.010	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.200	0.200	0.500	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	5.000	2.000	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.001	0.0	0.005	0.002
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.010	0.020	0.020	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.020	0.010	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	1.000	1.000	99999.000	99999.000
MANGANESE	0.100	0.0	0.0	0.0	0.005	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.010	0.0	0.0	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	2.000	2.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	2.000	5.000	5.000	5.000
SILVER	-0.001	0.0	0.0	0.0	0.0	0.0
SODIUM	2.000	99999.000	99999.000	99999.000	10.000	5.000

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SAMPLES                1         2         3         4         5         6

STRONTIUM      0.100     0.100     0.010     0.0       0.100     0.100
TANTALUM       0.0       0.0       0.0       0.0       0.0       0.0
TERBIUM        0.0       0.0       0.0       0.0       0.0       0.0
THALLIUM       0.0       0.0       0.0       0.0       0.0       0.0
THORIUM        0.0       0.0       0.0       0.0       0.0       0.0
THULIUM        0.0       0.0       0.0       0.0       0.0       0.0
TIN            0.0       0.0       0.0       0.0       0.0       0.0
TITANIUM       0.010     0.0       0.0       0.0       0.001     0.001
TUNGSTEN       0.0       0.0       0.0       0.0       0.0       0.0
URANIUM        0.0       0.0       0.0       0.0       0.0       0.0
VANADIUM       0.0       0.0       0.0       0.0       0.0       0.0
YTTERBIUM      0.0       0.0       0.0       0.0       0.0       0.0
YTTRIUM        0.0       0.0       0.0       0.0       0.0       0.0
ZINC           0.0       0.010     0.0       0.0       0.001     0.0
ZIRCONIUM      0.0       0.0       0.0       0.0       0.0       0.0
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12/29/75 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-6

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 163932.70 Y- 226189.30 Z- 6659.00
DATE DRILL COMPL- 72374 DATE CONV TO MONITOR-112274 AQUIFER 1: 180.00- 630.00FT AQUIFER 2: 1300.00-1780.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	32975	42875	42875	51775	51775	61075	61075	71375	71375	82875	82875
DEPTH	54.47	28.05	54.93	48.40	41.42	54.46	46.20	57.30	42.70	55.16	55.39	43.54
TEMP	48.0	46.9	48.2	50.0	49.6	49.6	48.7	48.9	60.8	58.6	58.1	57.2
LAB ID												
LAB NUM	8776	8699	9799	9798	366	367	769	770	1237	1238	2570	2571
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	L	U	L	L	U	L	U	L	U	U	L
WET												
ALUMINUM	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.200	0.300	-0.100	1.000	0.900	0.200	0.600	0.200	1.000	0.700	0.900	0.800
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	0.040	-0.010	-0.010
BICARBONAT	530.000	1620.000	530.000	1540.000	1560.000	550.000	1990.000	455.000	2780.000	480.000	500.000	2710.000
CADMIUM	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	16.000	9.000	20.000	0.800	5.700	23.000	9.000	16.000	6.600	15.000	12.000	1.600
CARBONATE	42.000	260.000	30.000	290.000	330.000	75.000	250.000	72.000	60.000	72.000	66.000	130.000
CHLORIDE	4.200	53.000	5.700	57.000	41.000	21.000	64.000	6.900	64.000	14.000	6.800	56.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.010	0.040	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.200
FLUORIDE	5.000	20.000	3.900	2.600	22.000	3.200	24.000	4.000	30.000	3.700	3.700	32.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	1.700	1.700	1.400	2.800	3.100	1.400	4.700	2.900	2.600	2.700	14.000	15.000
LEAD	0.090	0.200	0.090	0.200	0.200	0.040	0.100	0.080	0.200	0.060	0.030	1.000
MAGNESIUM	26.000	3.300	23.000	9.300	8.200	23.000	5.200	21.000	5.700	29.000	32.000	6.800
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.100	0.200	0.600	0.100	-0.100	-0.100	1.500	0.200	1.100	0.500	0.100	-0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	1.000	-0.100	0.400	0.200	0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.001	-0.010
SIL DIOXID	31.000	10.000	19.000	5.500	5.800	36.000	9.400	15.000	16.000	22.000	57.000	18.000
SODIUM	205.000	840.000	225.000	700.000	870.000	250.000	1030.000	200.000	1130.000	220.000	215.000	1220.000
SULFATE	28.000	16.000	105.000	60.000	40.000	30.000	25.000	20.000	100.000	45.000	10.000	15.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.200	0.800	1.000	1.100	3.500	0.400	0.900	1.800	0.200	0.100	0.400	1.100
GROS ALPHA	0.0	0.0	0.0	0.0	9.100	3.700	3.600	1.100	4.000	3.600	7.800	7.200
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	3.000	0.0	18.000	0.0	17.000	0.0
HARDNESS	150.000	36.000	145.000	40.000	48.000	150.000	44.000	125.000	40.000	155.000	164.000	32.000
PH	7.600	8.900	7.000	8.000	8.000	7.600	8.900	7.400	7.400	8.000	8.800	8.600
CONDUCTANC	940.000	2570.000	955.000	3400.000	2930.000	960.000	3620.000	950.000	3900.000	1107.000	995.000	3900.000
DIS SOLIDS	620.000	1920.000	690.000	1880.000	2090.000	730.000	2400.000	680.000	2780.000	660.000	660.000	2820.000
MANGANESE	0.550	-0.050	0.180	0.070	-0.050	0.100	0.100	0.200	-0.050	-0.050	0.100	0.400
ALKALINITY	469.000	1565.000	460.000	1500.000	4500.000	511.000	1835.000	434.000	2329.000	454.000	464.000	2330.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.600	2.000	1.800	2.600	1.900	-0.010	3.900	-0.010	3.100	0.400	1.000	5.700
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.040	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.010	0.040	0.010	0.030	0.030	-0.010	0.050	0.020	0.030	0.030	0.030	0.050
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	4.000	13.000	15.000	5.000	12.000	3.000	26.000	28.000	29.000	9.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.050	0.100	0.010	0.100	0.010	0.050	0.010	0.020	0.010	0.100	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.100	0.100	0.100	0.200	0.500	0.200	0.500	0.500	0.200	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	10.000	99999.000	99999.000	5.000	99999.000	5.000	0.0	1.000	10.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.001	0.001	0.010	0.001	0.001	0.0	0.010	0.010	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	0.100	0.050	0.0	0.010	0.020	0.020	0.010	0.010	0.500	0.010	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.001	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.100	0.010	0.001	0.010	0.010	0.010	0.010	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	10.000	99999.000	99999.000	2.000	99999.000	1.000	2.000	0.500	5.000	99999.000	99999.000
MANGANESE	0.010	0.0	0.0	0.0	0.001	0.010	0.001	0.0	0.0	0.010	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	0.050	0.100	0.100	1.000	1.000	1.000	1.000	1.000	2.000	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.400	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.100	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	20.000	5.000	2.000	5.000	5.000	2.000	5.000	5.000	2.000	2.000
SILVER	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	5.000	5.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-6

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	1.000	0.050	0.0	0.0	0.001	0.100	0.001	0.010	0.0	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.010	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 152484.10 Y- 221430.60 Z-    7268.00
DATE DRILL COMPL- 72074  DATE CONV TO MONITOR- 82674  AQUIFER 1:  400.00- 720.00FT  AQUIFER 2: 1060.00-1460.00FT


SAMPLES              1

DATE             71275
DEPTH           647.31
TEMP              64.4
LAB ID
LAB NUM           1239
METHOD               3
AQUIF.LOC.           L

WET

ALUMINUM         0.0
AMMONIA          0.700
ARSENIC         -0.010
BICARBONAT     720.000
CADMIUM         -0.010
CALCIUM        115.000
CARBONATE      380.000
CHLORIDE        51.000
CHROMIUM        -0.010
COPPER          -0.100
FLUORIDE        26.000
HYDROXIDE        0.0
IRON             1.600
LEAD             0.100
MAGNESIUM        7.900
MERCURY         -0.002
NITRATE          0.200
PHOSPHATE       -0.100
POTASSIUM        0.0
SELENIUM        -0.010
SIL DIOXID      16.000
SODIUM         510.000
SULFATE         35.000
SULFIDE          0.0
ZINC             0.100
GROS ALPHA       7.500
GROSS BETA       8.000
HARDNESS       320.000
PH              11.000
CONDUCTANC    4140.000
DIS SOLIDS    1460.000
MANGANESE       -0.050
ALKALINITY     900.000
CYANIDE         -0.010
BORON            1.900
BARIUM          -1.000
SILVER          -0.010
NICKEL           0.040
LITHIUM          0.0
TOC              6.000
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SAMPLES              1


SPECTROGRAPHIC

ALUMINUM        0.050
ANTIMONY        0.0
ARSENIC         0.0
BARIUM          0.0
BERYLIUM        0.0
BISMUTH         0.0
BORON           0.500
CADMIUM         0.0
CALCIUM         1.000
CERIUM          0.0
CESIUM          0.0
CHROMIUM        0.0
COBALT          0.0
COLUMBIUM       0.0
COPPER          0.001
DYSPROSIUM      0.0
ERBIUM          0.0
EUROPIUM        0.0
GADOLINIUM      0.0
GALLIUM         0.0
GERMANIUM       0.0
GOLD            0.0
HAFNIUM         0.0
HOLMIUM         0.0
INDIUM          0.0
IRIDIUM         0.0
IRON            0.010
LANTHANUM       0.0
LEAD            0.0
LITHIUM         0.020
LUTETIUM        0.0
MAGNESIUM       0.100
MANGANESE       0.001
MERCURY         0.0
MOLYBDENUM      0.0
NEODYMIUM       0.0
NICKEL          0.0
OSMIUM          0.0
PALLADIUM       0.0
PLATINUM        0.0
POTASSIUM       1.000
PRASEODYMI      0.0
RADIUM          0.100
RHENIUM         0.0
RHODIUM         0.0
RUBIDIUM        0.0
RUTHENIUM       0.0
SAMARIUM        0.0
SCANDIUM        0.0
SELENIUM        0.0
SILICON         2.000
SILVER          0.0
SODIUM      99999.000
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SAMPLES              1

STRONTIUM         0.0
TANTALUM          0.0
TERBIUM           0.0
THALLIUM          0.0
THORIUM           0.0
THULIUM           0.0
TIN               0.0
TITANIUM          0.0
TUNGSTEN          0.0
URANIUM           0.0
VANADIUM          0.0
YTTERBIUM         0.0
YTTRIUM           0.0
ZINC              0.0
ZIRCONIUM         0.0
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WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-9

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155213.00 Y- 223771.80 Z- 7132.00
DATE DRILL COMPL- 91274 DATE CONV TO MONITOR- 10275 AQUIFER 1: 410.00- 610.00FT AQUIFER 2: 1070.00-1240.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	33175	42675	51575	61275	71275	71275	83075	83075
DEPTH	322.94	323.39	323.24	323.80	510.94	316.95	311.65	512.12
TEMP	52.7	53.6	54.5	54.0	62.6	65.3	56.3	59.9
LAB ID								
LAB NUM	8778	9802	370	773	1240	1241	2572	2573
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L
WET								
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.400	0.200	0.200	0.300	0.700	0.400	0.500	0.700
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010
BICARBONAT	760.000	205.000	760.000	700.000	1090.000	630.000	620.000	410.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	145.000	135.000	200.000	160.000	6.600	115.000	39.000	5.700
CARBONATE	-0.100	-0.100	-0.100	-0.100	48.000	-0.100	-0.100	93.000
CHLORIDE	15.000	14.000	21.000	11.000	21.000	9.600	11.000	14.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	0.020	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.400	0.300	0.400	19.000	0.400	0.600	21.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.000	5.000	4.200	7.900	1.300	8.400	15.000	1.200
LEAD	0.020	0.200	0.400	0.100	0.040	0.100	0.800	0.200
MAGNESIUM	50.000	50.000	17.000	53.000	11.000	62.000	71.000	15.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.200	0.300	-0.100	0.200	0.200	1.600	0.200	0.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	56.000	53.000	51.000	49.000	8.700	48.000	48.000	4.500
SODIUM	265.000	120.000	270.000	205.000	520.000	240.000	290.000	260.000
SULFATE	400.000	500.000	400.000	320.000	55.000	460.000	390.000	75.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.120	0.300	15.000	-0.100	0.300	0.500	0.200
GROS ALPHA	0.0	6.600	8.300	11.000	5.800	5.200	7.000	0.400
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	31.000	45.000
HARDNESS	565.000	550.000	570.000	625.000	60.000	545.000	390.000	76.000
PH	6.600	6.600	6.800	6.400	7.300	7.000	6.500	7.000
CONDUCTANC	1510.000	1100.000	1640.000	1650.000	1711.000	1311.000	1380.000	1710.000
DIS SOLIDS	1310.000	980.000	1310.000	1150.000	1240.000	1250.000	1170.000	690.000
MANGANESE	0.230	0.150	0.100	0.300	-0.050	-0.050	0.200	0.300
ALKALINITY	625.000	170.000	710.000	575.000	929.000	515.000	510.000	411.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.500	-0.100	-0.010	-0.010	0.800	0.100	0.200	0.500
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.040	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.010	0.030	0.020	0.030	0.030	0.040	0.050	0.050
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	3.000	13.000	34.000	9.000	14.000	35.000	10.000

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.100	0.100	0.100	0.050	0.010	0.100	0.100	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.001	0.010	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	1.000	0.100	0.500	2.000	0.500	0.500	0.100	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.0	0.010	0.005	0.001	0.010	0.001	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.010	0.010	0.010	0.500	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.001	0.010	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	2.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.0	0.010	0.001	0.0	0.010	0.001	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.500	0.100	1.000	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.200	0.200	0.200	0.200	0.100	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	2.000	10.000	5.000	5.000	2.000	5.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	5.000	5.000	99999.000	5.000	10.000	5.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-9

SAMPLES	1	2	3	4	5	6	7	8
STRONTIUM	0.500	0.0	0.100	0.100	0.0	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.001	0.0	0.010	0.0	0.005
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.200	0.0	0.0	0.0	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-10

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162483.60 Y- 221691.80 Z- 7006.00
DATE DRILL COMPL-100174 DATE CONV TO MONITOR-111674 AQUIFER 1: 640.00- 620.00FT AQUIFER 2: 1380.00-1600.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	33175	42775	42775	50975	50975	61175	61175	71375	71375	82875	82875
DEPTH	371.74	341.20	341.09	393.92	341.76	389.30	391.90	344.50	387.65	341.05	340.67	388.51
TEMP	52.7	52.7	55.4	55.4	55.4	65.4	55.4	56.3	59.0	55.4	54.1	57.6
LAB ID												
LAB NUM	8779	8780	9804	9803	9924	9923	774	775	1242	1243	2574	2575
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	U	L	L	U	L	U	U	L
WET												
ALUMINUM	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.370	-0.100	0.400	0.120	0.300	0.600	0.600	0.500	0.700	0.900
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	1025.000	870.000	925.000	935.000	880.000	1070.000	1010.000	730.000	1340.000	830.000	825.000	1060.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	0.020	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	98.000	170.000	175.000	62.000	260.000	98.000	45.000	190.000	15.000	130.000	64.000	15.000
CARBONATE	-0.100	-0.100	-0.100	54.000	-0.100	5.800	48.000	48.000	42.000	-0.100	-0.100	63.000
CHLORIDE	24.000	15.000	13.000	26.000	21.000	34.000	36.000	14.000	25.000	9.600	4.100	14.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.010	0.020	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	3.000	0.600	0.600	5.000	0.600	6.400	8.000	1.000	24.000	0.600	0.700	21.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.110	0.050	3.600	3.500	6.900	9.100	6.600	5.100	6.800	8.100	16.000	4.500
LEAD	-0.010	-0.010	0.230	0.500	0.070	0.420	0.200	0.060	3.200	0.500	1.000	0.200
MAGNESIUM	94.000	105.000	110.000	105.000	110.000	79.000	83.000	100.000	35.000	140.000	130.000	30.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.200	0.200	1.100	0.700	0.600	1.200	0.400	4.500	0.200	0.200	0.100	0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	32.000	58.000	57.000	25.000	54.000	23.000	21.000	52.000	14.000	56.000	56.000	2.000
SODIUM	410.000	365.000	330.000	440.000	280.000	380.000	410.000	350.000	600.000	380.000	395.000	440.000
SULFATE	580.000	800.000	770.000	500.000	800.000	410.000	370.000	800.000	155.000	900.000	760.000	75.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.100	0.040	0.500	-0.100	0.800	0.900	0.800	0.500	0.100	0.200	0.900
GROS ALPHA	0.0	0.0	0.0	0.300	0.0	2.200	5.700	6.500	3.700	1.600	8.400	5.700
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.000	55.000
HARDNESS	630.000	845.000	890.000	580.000	1110.000	570.000	450.000	890.000	180.000	900.000	690.000	160.000
PH	6.800	6.800	6.600	7.200	6.800	7.000	7.000	6.000	7.400	6.800	6.200	6.800
CONDUCTANC	2038.000	2140.000	2470.000	2300.000	2460.000	1920.000	2300.000	2610.000	2399.000	2368.000	2300.000	1940.000
DIS SOLIDS	1740.000	1940.000	1910.000	1680.000	1960.000	1580.000	1520.000	1920.000	1570.000	2030.000	1830.000	1120.000
MANGANESE	0.190	0.110	0.050	0.090	0.020	0.080	0.060	0.050	0.050	0.050	-0.050	0.080
ALKALINITY	840.000	715.000	760.000	809.000	720.000	884.700	324.000	639.000	1124.000	680.000	675.000	52.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.800	0.500	0.200	0.400	0.800	1.300	1.000	-0.010	1.000	0.300	0.600	1.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.010	-0.010	0.030	0.030	0.010	-0.010	0.040	0.040	0.050	0.050	0.020	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	3.000	5.000	3.000	7.000	32.000	3.000	4.000	14.000	9.000	12.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.100	0.050	0.500	0.100	0.500	0.100	0.010	0.010	0.010	0.100	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.100	0.200	0.200	0.500	0.500	0.500	0.200	0.500	0.200	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.005	0.0	0.0	0.010	0.010	0.001	0.001	0.001	0.005	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.100	0.020	0.010	0.010	0.020	0.020	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.100	0.0	0.0	0.001	0.010	0.0	0.001	0.050	0.010	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	2.000	99999.000	5.000	99999.000
MANGANESE	0.0	0.010	0.100	0.050	0.100	0.100	0.010	0.0	0.001	0.010	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	2.000	0.0	0.100	2.000	2.000	1.000	0.100	2.000	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.200	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	10.000	10.000	2.000	5.000	5.000	5.000	5.000	2.000	2.000	5.000
SILVER	0.001	0.000	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	5.000	5.000	10.000	5.000	99999.000	99999.000	10.000	5.000

NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	1.000	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.010
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.200	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

12/29/75

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-11

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 154019.50 Y- 215731.70 Z- 7341.00
DATE DRILL COMPL-101274 DATE CONV TO MONITOR-112074 AQUIFER 1: 670.00- 910.00FT AQUIFER 2: 1350.00-1480.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	33175	42775	50975	61175	71375	71375	82875	82875
DEPTH	467.64	478.90	470.60	468.60	718.81	463.01	461.11	720.09
TEMP	55.4	55.4	57.5	57.6	65.3	57.2	50.9	64.4
LAB ID								
LAB NUM	8782	9926	9928	777	1244	1245	2576	2577
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L
WET								
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.780	0.340	0.300	0.800	0.400	0.500	0.700
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	395.000	500.000	420.000	350.000	1990.000	390.000	400.000	585.000
CADMIUM	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	22.000	56.000	26.000	30.000	6.600	21.000	19.000	4.900
CARBONATE	12.000	5.800	4.800	30.000	60.000	-0.100	-0.100	54.000
CHLORIDE	17.000	17.000	14.000	15.000	88.000	-1.000	-1.000	9.500
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	2.500	1.800	2.700	2.900	32.000	2.800	3.000	16.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	4.200	4.500	4.300	2.500	2.300	16.000	5.700
LEAD	0.030	0.600	0.050	0.200	0.500	0.100	0.800	0.800
MAGNESIUM	29.000	54.000	38.000	31.000	4.800	33.000	33.000	9.700
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.300	0.400	0.300	0.200	0.300	0.800	0.200	0.500
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	18.000	26.000	18.000	19.000	11.000	17.000	17.000	3.900
SODIUM	225.000	255.000	230.000	230.000	910.000	230.000	220.000	265.000
SULFATE	260.000	400.000	290.000	260.000	50.000	305.000	265.000	15.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.100	0.700	0.300	0.900	0.200	0.200	0.200	0.300
GROS ALPHA	0.0	0.0	0.0	2.900	19.000	1.600	10.000	2.700
GROSS BETA	0.0	0.0	0.0	0.0	31.000	0.0	35.000	4.000
HARDNESS	175.000	360.000	220.000	200.000	36.000	190.000	185.000	52.000
PH	7.200	7.000	6.800	6.100	7.500	7.000	5.800	7.000
CONDUCTANC	979.000	1480.000	1220.000	1150.000	3021.000	1512.000	1110.000	910.000
DIS SOLIDS	780.000	1060.000	830.000	790.000	2140.000	805.000	790.000	670.000
MANGANESE	0.110	0.060	0.050	0.100	-0.050	0.050	0.300	0.090
ALKALINITY	334.800	440.000	343.500	310.000	1679.000	320.000	325.000	524.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.700	0.900	0.800	0.200	2.500	0.200	0.700	2.700
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.010	0.010	0.010	0.020	0.030	0.060	0.030	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	1.000	1.000	4.000	21.000	4.000	11.000	12.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-11

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.100	0.200	0.100	0.100	0.100	0.010	0.020	0.005
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.500	0.200	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.010	0.005	0.010	0.001	0.005	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.010	0.010	0.010	0.020	0.050	0.010	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.010	0.010	0.001	0.0	0.0	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.100	0.050	0.001	0.005	0.005	0.001	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.010	0.0	0.001	0.001	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	5.000	5.000	0.500	2.000	0.100	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.600	0.0	0.200	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	5.000	5.000	2.000	5.000	2.000
SILVER	-0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	5.000	99999.000	5.000	2.000	5.000

NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8
STRONTIUM	0.100	0.100	0.100	0.100	0.050	0.050	0.100	0.200
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000
TITANIUM	0.010	0.0	0.001	0.001	0.001	0.010	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NNN-J23-0000

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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155416.40 Y- 217335.40 Z-    7267.00
DATE DRILL COMPL- 91574  DATE CONV TO MONITOR-112374  AQUIFER 1:  580.00- 620.00FT  AQUIFER 2: 1280.00-1430.00FT


SAMPLES             1          2          3          4          5          6          7

DATE            42775      50975      61175      71375      71375      82875      82875
DEPTH          407.50     646.90     396.80     645.78     391.98     389.21     646.84
TEMP             51.8       55.3       55.8       65.3       57.2       58.6       64.7
LAB ID
LAB NUM          9930       9932        779       1334       1335       2578       2579
METHOD              3          3          3          3          3          3          3
AQUIF.LOC.          U          U          U          L          U          U          L

WET

ALUMINUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0
AMMONIA        -0.100     -0.100      0.200      1.100      0.300      0.400      1.000
ARSENIC        -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT    200.000    100.000     85.000   2020.000    575.000    580.000   1430.000
CADMIUM         0.010      0.020     -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM        30.000     16.000     20.000     13.000    105.000    110.000      9.800
CARBONATE      -0.100     -0.100     -0.100    150.000     -0.100     -0.100     48.000
CHLORIDE       21.000     27.000      9.600    145.000     14.000      6.800     79.000
CHROMIUM       -0.050     -0.050     -0.010     -0.010     -0.010     -0.010     -0.010
COPPER         -0.100     -0.100     -0.100     -0.100     -0.100     -0.100     -0.100
FLUORIDE        0.300      0.100      0.200     57.000      0.200      0.300     37.000
HYDROXIDE       0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRON            9.100      9.300      7.100      6.100      8.000     18.000     16.000
LEAD            0.230     -0.010      0.100      0.200      0.100      0.600      0.600
MAGNESIUM      62.000     11.000     14.000     20.000     70.000     65.000     42.000
MERCURY        -0.010     -0.010     -0.010     -0.002     -0.002     -0.002     -0.002
NITRATE         0.900      0.200      0.200      0.100      0.100      0.700      0.200
PHOSPHATE      -0.100     -0.100     -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM       0.0        0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM       -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID      2.900      0.600      3.100      5.900     16.000     39.000      7.600
SODIUM        160.000    225.000    260.000   1040.000    240.000    230.000    700.000
SULFATE       430.000    420.000    520.000    140.000    520.000    490.000    205.000
SULFIDE         0.0        0.0        0.0        0.0        0.0        0.0        0.0
ZINC            1.200      0.200      3.900      0.900      0.100      0.200      0.800
GROS ALPHA      0.200      0.600      0.300     10.000      0.0        6.900      6.800
GROSS BETA      0.0        0.0        0.0       12.000      0.0       31.000     53.000
HARDNESS      330.000     86.000    110.000    115.000    550.000    535.000    195.000
PH              6.400      6.600      6.100      7.500      6.800      6.300      7.400
CONDUCTANC   1480.000   1225.000   1300.000   3705.000   1827.000   1830.000   2750.000
DIS SOLIDS    820.000   1045.000    870.000   2470.000   1250.000   1240.000   1640.000
MANGANESE       0.680      0.780      0.400     -0.050      0.300      0.500      0.300
ALKALINITY    160.000     82.000     70.000   1770.000    550.000    475.000   1209.000
CYANIDE        -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BORON           0.800      1.200      4.600      4.400      0.400     -0.010      2.700
BARIUM         -1.000     -1.000     -1.000     -1.000     -1.000     -1.000     -1.000
SILVER         -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
NICKEL          0.020      0.020      0.020      0.040      0.040      0.040      0.040
LITHIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
TOC            10.000      4.000      6.000     10.000     10.000     50.000      9.000
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SAMPLES	1	2	3	4	5	6	7
SPECTROGRAPHIC							
ALUMINUM	0.200	0.100	0.100	0.010	0.050	0.100	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.010	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.500	0.500	0.500	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.010	0.001	0.010	0.010	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.050	0.010	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.001	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.020	0.010	0.010	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	5.000	99999.000	99999.000	99999.000
MANGANESE	0.100	0.010	0.010	0.0	0.001	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.010	0.001	0.0	0.001	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	5.000	1.000	1.000	0.100	0.100	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.900	0.0	0.0	0.100
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	5.000	5.000	5.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	10.000	99999.000	5.000	10.000	5.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-12

SAMPLES	1	2	3	4	5	6	7
STRONTIUM	0.100	0.100	0.100	0.001	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.010	0.001	0.0	0.001	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NNN-J23-0000

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 156583.60 Y- 219490.80 Z- 7191.00
DATE DRILL COMPL- 92874 DATE CONV TO MONITOR-112274 AQUIFER 1: 510.00- 840.00FT AQUIFER 2: 1280.00-1380.00FT

SAMPLES	1	2	3	4	5	6	7
DATE	42775	50975	61175	71375	71375	82875	82875
DEPTH	384.40	384.80	387.50	572.30	384.42	382.37	572.26
TEMP	53.5	54.5	54.5	62.6	57.2	57.2	55.6
LAB ID							
LAB NUM	9935	9937	879	1336	1337	2580	2581
METHOD	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	U	L
WET							
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	-0.100	0.500	1.000	0.300	0.800	0.700
ARSENIC	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	525.000	460.000	435.000	1830.000	605.000	620.000	1630.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	53.000	49.000	30.000	9.000	105.000	82.000	7.400
CARBONATE	36.000	66.000	54.000	205.000	-0.100	-0.100	30.000
CHLORIDE	14.000	13.000	12.000	89.000	14.000	8.200	51.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.100	0.100	0.100	56.000	0.100	0.500	13.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.300	1.800	5.200	2.700	7.700	15.000	7.600
LEAD	0.900	1.100	0.400	0.500	0.200	1.000	1.400
MAGNESIUM	79.000	82.000	74.000	6.200	72.000	79.000	14.000
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.400	0.500	7.000	0.200	0.200	0.800	1.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	23.000	26.000	17.000	4.700	17.000	37.000	6.700
SODIUM	210.000	200.000	250.000	1000.000	200.000	235.000	710.000
SULFATE	360.000	345.000	400.000	50.000	475.000	480.000	100.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	3.700	1.400	2.000	0.100	0.300	0.200	0.500
GROS ALPHA	1.300	0.800	0.0	22.000	0.400	9.700	4.300
GROSS BETA	0.0	0.0	0.0	79.000	0.0	48.000	0.0
HARDNESS	455.000	460.000	380.000	48.000	555.000	530.000	76.000
PH	7.000	6.900	6.100	7.400	7.000	6.400	7.200
CONDUCTANC	1550.000	1460.000	1510.000	3481.000	1638.000	1710.000	1485.000
DIS SOLIDS	1040.000	1010.000	1060.000	2330.000	1190.000	1240.000	1740.000
MANGANESE	0.070	0.080	0.100	-0.050	0.200	0.200	0.200
ALKALINITY	460.000	429.000	399.000	1670.000	495.000	510.000	1354.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.270	0.070	0.020	2.800	1.000	0.700	3.700
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010
NICKEL	0.040	0.040	0.020	0.050	0.040	0.020	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	3.000	2.000	7.000	10.000	12.000	12.000	3.000

SAMPLES	1	2	3	4	5	6	7
SPECTROGRAPHIC							
ALUMINUM	0.001	0.100	0.050	0.100	0.010	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.500	0.500	0.500	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	5.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.001	0.0	0.001	0.005	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.020	0.050	0.0	0.050	0.010	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.0	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	0.0	99999.000	10.000	99999.000
MANGANESE	0.010	0.0	0.001	0.0	0.010	0.001	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.010	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.100	0.0	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.700	0.0	0.0	0.100
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	10.000	2.000	5.000	2.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	5.000	99999.000	5.000	5.000	5.000

```
SAMPLES             1         2         3         4         5         6         7

STRONTIUM       0.500     0.0       0.100     0.010     0.100     0.050     0.100
TANTALUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0
TERBIUM         0.0       0.0       0.0       0.0       0.0       0.0       0.0
THALLIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0
THORIUM         0.0       0.0       0.0       0.0       0.0       0.0       0.0
THULIUM         0.0       0.0       0.0       0.0       0.0       0.0       0.0
TIN             0.0       0.0       0.0       0.0       0.0       0.0       0.0
TITANIUM        0.0       0.0       0.0       0.0       0.001     0.001     0.0
TUNGSTEN        0.0       0.0       0.0       0.0       0.0       0.0       0.0
URANIUM         0.0       0.0       0.0       0.0       0.0       0.0       0.0
VANADIUM        0.0       0.0       0.0       0.0       0.0       0.0       0.0
YTTERBIUM       0.0       0.0       0.0       0.0       0.0       0.0       0.0
YTTRIUM         0.0       0.0       0.0       0.0       0.0       0.0       0.0
ZINC            0.010     0.0       0.001     0.0       0.0       0.0       0.001
ZIRCONIUM       0.0       0.0       0.0       0.0       0.0       0.0       0.0
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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162945.30 Y- 215066.80 Z-    6980.00
DATE DRILL COMPL-102874  DATE CONV TO MONITOR-123074  AQUIFER 1:  600.00- 700.00FT  AQUIFER 2: 1300.00-1400.00FT


SAMPLES              1          2          3          4

DATE             71375      71375      82875      82875
DEPTH           361.07     275.04     274.85     361.99
TEMP              63.5       60.4       59.5       60.3
LAB ID
LAB NUM           1338       1339       2582       2583
METHOD               3          3          3          3
AQUIF.LOC.           L          U          U          L

WET

ALUMINUM       0.0        0.0        0.0        0.0
AMMONIA          1.400      0.200      0.500      0.800
ARSENIC         -0.010     -0.010     -0.010     -0.010
BICARBONAT    2280.000    325.000    445.000    780.000
CADMIUM         -0.010     -0.010     -0.010     -0.010
CALCIUM         17.000     30.000     23.000     14.000
CARBONATE      235.000     90.000     24.000     48.000
CHLORIDE        48.000     14.000      4.100     19.000
CHROMIUM        -0.010     -0.010     -0.010     -0.010
COPPER          -0.100     -0.100     -0.100     -0.100
FLUORIDE        85.000      2.400      2.300     26.000
HYDROXIDE      0.0        0.0        0.0        0.0
IRON             4.500      2.800     11.000      5.400
LEAD             0.300      0.900      0.500      0.500
MAGNESIUM       29.000     36.000     42.000     90.000
MERCURY         -0.002     -0.002     -0.002     -0.002
NITRATE          0.100      0.200      1.400      0.200
PHOSPHATE       -0.100      0.100      0.100     -0.100
POTASSIUM      0.0        0.0        0.0        0.0
SELENIUM        -0.010     -0.010     -0.010     -0.010
SIL DIOXID      11.000      2.600     21.000      4.600
SODIUM        1220.000    260.000    255.000    400.000
SULFATE        180.000    320.000    330.000    430.000
SULFIDE        0.0        0.0        0.0        0.0
ZINC             0.300      0.100      0.200      0.200
GROS ALPHA      20.000      0.600     13.000      3.200
GROSS BETA      40.000      7.000     16.000      0.0
HARDNESS       160.000    225.000    230.000    405.000
PH               7.600      7.200      7.100      7.200
CONDUCTANC    4388.000   1380.000   1310.000   2600.000
DIS SOLIDS    2950.000    900.000    930.000   1420.000
MANGANESE       -0.050      0.070      0.100      0.090
ALKALINITY    2050.000    339.000    383.000    679.000
CYANIDE         -0.010     -0.010     -0.010     -0.010
BORON            4.400      0.100      0.200      3.600
BARIUM          -1.000     -1.000     -1.000     -1.000
SILVER          -0.010     -0.010     -0.010     -0.010
NICKEL           0.060      0.030      0.020      0.030
LITHIUM        0.0        0.0        0.0        0.0
TOC             73.000      9.000      5.000      6.000
```

SAMPLES	1	2	3	4
SPECTROGRAPHIC				
ALUMINUM	0.001	0.010	0.005	0.050
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.001	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.500	0.200	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.010	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.010	0.020	0.020	0.020
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.001
LUTETIUM	0.0	0.010	0.0	0.0
MAGNESIUM	5.000	99999.000	99999.000	99999.000
MANGANESE	0.001	0.010	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.100	0.100
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.300	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	2.000	5.000
SILVER	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	5.000	5.000

NNN-J23-0000

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SAMPLES            1         2         3         4

STRONTIUM       0.010     0.0       0.100     0.100
TANTALUM        0.0       0.0       0.0       0.0
TERBIUM         0.0       0.0       0.0       0.0
THALLIUM        0.0       0.0       0.0       0.0
THORIUM         0.0       0.0       0.0       0.0
THULIUM         0.0       0.0       0.0       0.0
TIN             0.0       0.0       0.0       0.0
TITANIUM        0.0       0.001     0.0       0.0
TUNGSTEN        0.0       0.0       0.0       0.0
URANIUM         0.0       0.0       0.0       0.0
VANADIUM        0.0       0.0       0.0       0.0
YTTERBIUM       0.0       0.0       0.0       0.0
YTTRIUM         0.0       0.0       0.0       0.0
ZINC            0.001     0.0       0.0       0.001
ZIRCONIUM       0.0       0.0       0.0       0.0
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NNN-J23-0000

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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155352.57 Y- 217387.19 Z-       0.0
DATE DRILL COMPL-113074  DATE CONV TO MONITOR-      0  AQUIFER 1:  580.00- 620.00FT  AQUIFER 2: 1280.00-1430.00FT


SAMPLES             1

DATE            50975
DEPTH             0.0
TEMP             60.8
LAB ID
LAB NUM           170
METHOD              3
AQUIF.LOC.          L

WET

ALUMINUM        0.0
AMMONIA         1.400
ARSENIC        -0.010
BICARBONAT   2420.000
CADMIUM        -0.010
CALCIUM        17.000
CARBONATE     240.000
CHLORIDE      160.000
CHROMIUM        0.0
COPPER         -0.100
FLUORIDE       72.000
HYDROXIDE       0.0
IRON            1.900
LEAD            0.060
MAGNESIUM       7.200
MERCURY        -0.010
NITRATE        -0.100
PHOSPHATE      -0.100
POTASSIUM       0.0
SELENIUM       -0.010
SIL DIOXID     14.000
SODIUM       1200.000
SULFATE        50.000
SULFIDE         0.0
ZINC            0.100
GROS ALPHA      7.300
GROSS BETA      0.0
HARDNESS       72.000
PH              8.000
CONDUCTANC   4180.000
DIS SOLIDS   2950.000
MANGANESE      -0.050
ALKALINITY   2180.000
CYANIDE        -0.010
BORON           5.300
BARIUM         -1.000
SILVER         -0.010
NICKEL          0.100
LITHIUM         0.0
TOC            13.000
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NNN-J23-0000

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SAMPLES              1


SPECTROGRAPHIC

ALUMINUM          0.100
ANTIMONY          0.0
ARSENIC           0.0
BARIUM            0.0
BERYLLIUM         0.0
BISMUTH           0.0
BORON             0.500
CADMIUM           0.0
CALCIUM          10.000
CERIUM            0.0
CESIUM            0.0
CHROMIUM          0.0
COBALT            0.0
COLUMBIUM         0.0
COPPER            0.001
DYSPROSIUM        0.0
ERBIUM            0.0
EUROPIUM          0.0
GADOLINIUM        0.0
GALLIUM           0.0
GERMANIUM         0.0
GOLD              0.0
HAFNIUM           0.0
HOLMIUM           0.0
INDIUM            0.0
IRIDIUM           0.0
IRON              0.020
LANTHANUM         0.0
LEAD              0.0
LITHIUM           0.010
LUTETIUM          0.0
MAGNESIUM         5.000
MANGANESE         0.001
MERCURY           0.0
MOLYBDENUM        0.0
NEODYMIUM         0.0
NICKEL            0.0
OSMIUM            0.0
PALLADIUM         0.0
PLATINUM          0.0
POTASSIUM         2.000
PRASEODYMI        0.0
RADIUM            0.700
RHENIUM           0.0
RHODIUM           0.0
RUBIDIUM          0.0
RUTHENIUM         0.0
SAMARIUM          0.0
SCANDIUM          0.0
SELENIUM          0.0
SILICON           2.000
SILVER            0.0
SODIUM        99999.000
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SAMPLES             1

STRONTIUM       0.0
TANTALUM        0.0
TERBIUM         0.0
THALLIUM        0.0
THORIUM         0.0
THULIUM         0.0
TIN             0.0
TITANIUM        0.0
TUNGSTEN        0.0
URANIUM         0.0
VANADIUM        0.0
YTTERBIUM       0.0
YTTRIUM         0.0
ZINC            0.0
ZIRCONIUM       0.0
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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151719.56 Y- 229929.78 Z-       0.0
DATE DRILL COMPL-112474  DATE CONV TO MONITOR-      0  AQUIFER 1:  220.00- 310.00FT  AQUIFER 2:  940.00-1020.00FT


SAMPLES               1         2

DATE              32475     42975
DEPTH            375.00    368.64
TEMP               57.2      57.2
LAB ID
LAB NUM            8156       176
METHOD                3         3
AQUIF.LOC.            L         L

WET

ALUMINUM          0.390     0.0
AMMONIA           1.600     0.600
ARSENIC          -0.010    -0.010
BICARBONAT      840.000   710.000
CADMIUM          -0.001    -0.010
CALCIUM          25.000    34.000
CARBONATE        -0.100    75.000
CHLORIDE         19.000    21.000
CHROMIUM         -0.010     0.0
COPPER            0.010    -0.100
FLUORIDE          4.000     6.000
HYDROXIDE         0.0       0.0
IRON              3.000     8.900
LEAD              0.003     0.100
MAGNESIUM        44.000    57.000
MERCURY           0.002    -0.010
NITRATE           0.200     0.200
PHOSPHATE        -0.100    -0.100
POTASSIUM         0.0       0.0
SELENIUM         -0.010    -0.010
SIL DIOXID        4.500     4.700
SODIUM          385.000   350.000
SULFATE         350.000   320.000
SULFIDE           0.0       0.0
ZINC              0.050     0.200
GROS ALPHA        2.500     1.500
GROSS BETA        4.000     0.0
HARDNESS        245.000   320.000
PH                6.400     6.800
CONDUCTANC     1750.000  1525.000
DIS SOLIDS     1250.000  1220.000
MANGANESE         0.320     0.090
ALKALINITY      690.000   641.000
CYANIDE          -0.010    -0.010
BORON            -0.010     0.800
BARIUM           -1.000    -1.000
SILVER            0.001    -0.010
NICKEL            0.003     0.040
LITHIUM           0.0       0.0
TOC               0.0       5.000
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SAMPLES              1          2


SPECTROGRAPHIC

ALUMINUM         0.200      0.050
ANTIMONY         0.0        0.0
ARSENIC          0.0        0.0
BARIUM           0.0        0.0
BERYLIUM         0.0        0.0
BISMUTH          0.0        0.0
BORON            0.0        0.500
CADMIUM          0.0        0.0
CALCIUM      99999.000     10.000
CERIUM           0.0        0.0
CESIUM           0.0        0.0
CHROMIUM         0.0        0.0
COBOLT           0.0        0.0
COLUMBIUM        0.0        0.0
COPPER           0.001      0.001
DYSPROSIUM       0.0        0.0
ERBIUM           0.0        0.0
EUROPIUM         0.0        0.0
GADOLINIUM       0.0        0.0
GALLIUM          0.0        0.0
GERMANIUM        0.0        0.0
GOLD             0.0        0.0
HAFNIUM          0.0        0.0
HOLMIUM          0.0        0.0
INDIUM           0.0        0.0
IRIDIUM          0.0        0.0
IRON             0.500      0.020
LANTHANUM        0.0        0.0
LEAD             0.0        0.0
LITHIUM          0.0        0.010
LUTETIUM         0.0        0.0
MAGNESIUM    99999.000      5.000
MANGANESE        0.100      0.010
MERCURY          0.0        0.0
MOLYBDENUM       0.001      0.0
NEODYMIUM        0.0        0.0
NICKEL           0.0        0.0
OSMIUM           0.0        0.0
PALLADIUM        0.0        0.0
PLATINUM         0.0        0.0
POTASSIUM        5.000      2.000
PRASEODYMI       0.0        0.0
RADIUM           0.0        0.0
RHENIUM          0.0        0.0
RHODIUM          0.0        0.0
RUBIDIUM         0.0        0.0
RUTHENIUM        0.0        0.0
SAMARIUM         0.0        0.0
SCANDIUM         0.0        0.0
SELENIUM         0.0        0.0
SILICON          5.000      2.000
SILVER           0.0        0.0
SODIUM       99999.000  99999.000
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NNN-J23-0000

SAMPLES	1	2
STRONTIUM	0.100	0.010
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.010	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GSM-1

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151453.91 Y- 232774.44 Z- 7452.00
DATE DRILL COMPL-111674 DATE CONV TO MONITOR-121374 AQUIFER 1: 600.00- 800.00FT AQUIFER 2: 1360.00-1500.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	32975	42275	42275	50875	50875	60975	60975	71775	71775	82975	82975
DEPTH	807.05	632.72	629.44	821.71	825.72	627.64	827.00	628.00	820.03	623.71	621.37	821.01
TEMP	57.2	55.6	57.0	59.4	58.6	57.8	58.8	57.4	64.4	59.0	59.0	60.8
LAB ID												
LAB NUM	8887	8888	9943	9942	9944	9945	884	885	1340	1341	2584	2585
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	L	U	L	U	L	U	U	L
WET												
ALUMINUM	0.300	0.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.100	1.200	-0.100	-0.100	-0.100	0.100	0.100	0.200	0.200	0.200	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.040	-0.010	-0.010
BICARBONAT	355.000	390.000	370.000	370.000	450.000	390.000	340.000	335.000	590.000	395.000	390.000	300.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	16.000	27.000	66.000	30.000	18.000	51.000	16.000	18.000	16.000	43.000	33.000	9.100
CARBONATE	9.000	-0.100	18.000	24.000	-0.100	12.000	36.000	24.000	66.000	-0.100	-0.100	42.000
CHLORIDE	6.900	9.700	14.000	16.000	17.000	13.000	6.900	16.000	21.000	27.000	4.100	9.500
CHROMIUM	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.080	0.780	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.200	0.100	0.400	0.400	0.100	0.400	0.200	4.700	0.200	0.400	0.900
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.450	2.100	2.000	1.200	2.100	4.200	3.000	9.500	3.400	8.400	16.000	4.600
LEAD	1.500	2.500	1.000	3.600	4.600	1.100	2.300	1.700	0.700	0.200	1.000	0.400
MAGNESIUM	31.000	38.000	24.000	35.000	35.000	30.000	26.000	31.000	22.000	29.000	32.000	30.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	0.500	-0.100	-0.100	-0.100	-0.100	0.200	0.100	0.200	0.200	0.200	1.000
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	4.400	21.000	24.000	5.100	-0.100	22.000	2.000	6.000	9.900	14.000	21.000	0.800
SODIUM	200.000	220.000	230.000	190.000	190.000	210.000	190.000	205.000	335.000	230.000	230.000	200.000
SULFATE	270.000	300.000	350.000	250.000	220.000	320.000	185.000	250.000	230.000	330.000	345.000	230.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.310	0.540	0.400	0.300	0.400	0.400	0.500	1.000	0.200	0.200	0.100	0.400
GROS ALPHA	0.0	0.0	0.900	2.000	2.000	7.600	2.000	2.600	3.900	29.000	20.000	0.100
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.000	7.000	45.000	41.000
HARDNESS	170.000	225.000	265.000	215.000	190.000	250.000	150.000	170.000	130.000	230.000	210.000	145.000
PH	6.600	6.400	6.400	6.800	6.700	6.500	7.200	6.500	7.200	7.000	7.000	7.400
CONDUCTANC	1200.000	1220.000	1180.000	1050.000	1040.000	1150.000	990.000	1120.000	1323.000	1205.000	1140.000	1020.000
DIS SOLIDS	710.000	810.000	910.000	730.000	700.000	850.000	630.000	720.000	1000.000	880.000	870.000	670.000
MANGANESE	0.140	0.450	0.140	-0.050	0.400	0.150	0.050	0.300	0.060	0.050	0.080	0.100
ALKALINITY	297.400	320.000	320.000	325.000	370.000	330.000	310.000	295.000	539.000	325.000	320.000	279.000
CYANIDE	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.200	0.300	0.160	0.080	0.080	0.410	0.010	0.060	0.300	0.200	0.300	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.020	0.020	0.020	0.020	0.020	0.040	0.020	0.010	0.200	0.070	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	6.000	17.000	17.000	9.000	10.000	12.000	10.000	10.000	8.000	9.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	0.100	0.100	0.010	0.100	0.010	0.050	0.100	0.100	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	1.000	0.100	0.500	0.100	0.100	0.500	0.500	0.500	0.200	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.020	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.001	0.001	0.001	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	0.500	0.050	0.010	0.010	0.020	0.050	0.050	0.010	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.200	0.500	0.200	0.050	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.010	0.0	0.0	0.100	0.010	0.001	0.0	0.0	0.001	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
MANGANESE	0.010	0.020	0.100	0.010	0.010	0.100	0.005	0.010	0.001	0.001	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.500	0.050	0.100	0.500	0.0	0.0	0.0	0.001	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	2.000	0.500	1.000	0.100	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	20.000	10.000	10.000	20.000	5.000	2.000	5.000	2.000	2.000	5.000
SILVER	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	5.000	10.000	5.000	5.000	10.000

NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.010	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.0	0.100	0.0	0.0	0.010	0.0	0.001	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NNN-J23-0000

12/29/75

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GSM-2

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 173637.82 Y- 240533.37 Z- 6556.00
DATE DRILL COMPL-103074 DATE CONV TO MONITOR- 10475 AQUIFER 1: 360.00-1160.00FT AQUIFER 2: 1980.00-2030.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	32975	32975	42675	42675	50775	50975	60975	60975	71675	82975	82975
DEPTH	353.04	234.16	232.43	353.44	232.25	353.69	356.00	233.00	232.16	236.42	354.85
TEMP	50.9	46.8	0.0	53.6	51.6	52.5	53.2	52.7	53.9	55.4	55.4
LAB ID											
LAB NUM	9017	9018	240	239	9794	9946	886	887	1343	2586	2587
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	U	L	L	U	U	U	L
WET											
ALUMINUM	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.100	0.300	0.200	0.100	-0.100	-0.100	0.200	0.400	0.500	0.400	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	585.000	645.000	590.000	540.000	605.000	435.000	415.000	590.000	650.000	645.000	355.000
CADMIUM	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	85.000	95.000	92.000	66.000	78.000	67.000	46.000	51.000	65.000	59.000	18.000
CARBONATE	-0.100	-0.100	12.000	8.600	-0.100	55.000	42.000	-0.100	-0.100	-0.100	84.000
CHLORIDE	17.000	11.000	64.000	16.000	7.100	17.000	9.600	12.000	14.000	3.400	9.500
CHROMIUM	-0.010	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.100	-0.100	0.020	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.200	0.100	0.200	0.200	0.200	0.200	0.500	0.100	0.400	0.200	2.100
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.120	-0.050	7.600	7.200	5.400	6.200	4.500	6.000	8.200	17.000	2.200
LEAD	0.030	0.040	0.200	0.700	0.510	0.530	0.200	0.200	0.700	0.040	0.900
MAGNESIUM	115.000	135.000	130.000	130.000	140.000	115.000	110.000	145.000	150.000	155.000	88.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002
NITRATE	0.600	0.700	0.700	1.200	0.300	0.100	0.200	0.900	0.200	1.000	0.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.010	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	19.000	38.000	21.000	13.000	22.000	11.000	5.100	17.000	20.000	29.000	6.300
SODIUM	195.000	210.000	240.000	200.000	190.000	190.000	220.000	215.000	210.000	140.000	235.000
SULFATE	580.000	640.000	630.000	600.000	630.000	570.000	580.000	620.000	590.000	500.000	450.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.120	0.270	0.400	0.600	0.620	0.400	0.800	0.500	1.000	0.300	0.200
GROS ALPHA	0.0	0.0	3.400	0.0	0.0	1.400	1.300	3.000	4.400	5.800	2.400
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.000	9.000
HARDNESS	685.000	790.000	780.000	690.000	770.000	635.000	575.000	730.000	780.000	780.000	405.000
PH	6.600	6.600	6.800	6.400	6.600	6.800	6.800	6.600	6.900	6.500	7.200
CONDUCTANC	1550.000	1740.000	1820.000	1730.000	1920.000	1670.000	1590.000	1850.000	1848.000	1520.000	1410.000
DIS SOLIDS	1300.000	1450.000	1460.000	1290.000	1370.000	1240.000	1220.000	1360.000	1380.000	1220.000	1070.000
MANGANESE	0.200	0.380	0.200	0.200	0.280	0.200	0.200	0.300	0.060	0.100	0.200
ALKALINITY	480.000	530.000	490.000	447.000	495.000	399.000	374.000	485.000	530.000	530.000	359.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	0.200	0.200	9.400	0.260	0.050	0.010	0.030	0.400	-0.010	0.600
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010
NICKEL	0.020	0.040	0.030	0.030	0.020	0.020	0.020	0.030	0.040	0.030	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	10.000	6.000	6.000	7.000	8.000	8.000	10.000	9.000	10.000

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12/29/75                                 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GSM-2                                       PAGE 68

SAMPLES              1          2          3          4          5          6          7          8          9         10         11


SPECTROGRAPHIC

ALUMINUM         0.100      0.010      0.020      0.020      0.500      0.100      0.050      0.050      0.010      0.010      0.100
ANTIMONY         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
ARSENIC          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
BARIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.001
BERYLIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
BISMUTH          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
BORON            0.100      0.100      0.200      0.500      0.100      0.100      0.500      0.200      0.500      0.500      0.500
CADMIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
CALCIUM      99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000
CERIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
CESIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
CHROMIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
COBOLT           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
COLUMBIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
COPPER           0.010      0.010      0.005      0.001      0.010      0.010      0.001      0.010      0.010      0.010      0.010
DYSPROSIUM       0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
ERBIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
EUROPIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GADOLINIUM       0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GALLIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GERMANIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GOLD             0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
HAFNIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
HOLMIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
INDIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRIDIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRON             0.010      0.100      0.020      0.010      1.000      0.050      0.020      0.050      0.020      0.050      0.020
LANTHANUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
LEAD             0.0        0.0        0.0        0.0        0.010      0.010      0.0        0.0        0.0        0.0        0.000
LITHIUM          0.100      0.500      0.001      0.001      0.0        0.010      0.001      0.001      0.001      0.001      0.001
LUTETIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
MAGNESIUM    99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000
MANGANESE        0.100      0.200      0.010      0.010      0.010      0.100      0.001      0.010      0.001      0.005      0.010
MERCURY          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
MOLYBDENUM       0.010      0.0        0.0        0.001      0.001      0.010      0.002      0.001      0.0        0.0        0.0
NEODYMIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
NICKEL           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
OSMIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
PALLADIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
PLATINUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
POTASSIUM        0.100      0.100      0.100      0.100      0.100      1.000      0.100      1.000      0.100      0.100      0.100
PRASEODYMI       0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
RADIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.300      0.100      0.0
RHENIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
RHODIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
RUBIDIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
RUTHENIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SAMARIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SCANDIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SILICON         10.000     20.000      2.000      5.000     20.000     10.000      5.000      5.000      5.000      5.000      5.000
SILVER           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SODIUM       99999.000  99999.000      5.000      5.000  99999.000  99999.000      5.000      5.000      5.000      5.000      5.000
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NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.100	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.001	0.010	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.001	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GSM-3

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 183730.57 Y- 234224.33 Z- 6321.00
DATE DRILL COMPL-110974 DATE CONV TO MONITOR-122674 AQUIFER 1: 100.00-1000.00FT AQUIFER 2: 1450.00-1650.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	32975	42675	50775	60975	71675	71675	82975	82975
DEPTH	20.93	20.77	20.78	22.50	138.13	22.32	21.96	139.63
TEMP	46.8	47.3	47.8	46.6	52.7	49.3	51.8	54.5
LAB ID								
LAB NUM	9020	242	9796	889	1346	1347	2588	2589
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L
WET								
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.500	0.500	0.330	0.500	0.700	0.500	0.400	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	555.000	530.000	380.000	435.000	825.000	590.000	630.000	460.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	42.000	34.000	25.000	25.000	6.600	30.000	38.000	11.000
CARBONATE	-0.100	8.600	42.000	42.000	-0.100	-0.100	-0.100	84.000
CHLORIDE	15.000	27.000	24.000	18.000	6.900	16.000	9.500	11.000
CHROMIUM	-0.010	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	0.010	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	1.300	1.400	1.400	1.600	14.000	2.200	2.200	4.800
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	7.400	3.900	3.000	2.300	3.100	2.200	16.000
LEAD	0.030	0.700	0.210	0.070	0.400	0.200	0.200	2.300
MAGNESIUM	66.000	72.000	74.000	72.000	14.000	80.000	75.000	50.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.700	0.200	0.200	0.600	0.800	0.300	0.700	0.200
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	6.900	4.300	1.100	0.600	28.000	21.000	22.000	3.200
SODIUM	250.000	280.000	225.000	200.000	325.000	280.000	310.000	270.000
SULFATE	440.000	490.000	400.000	300.000	20.000	465.000	480.000	275.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	1.000	0.100	0.220	1.600	0.200	0.600	0.200	13.000
GROS ALPHA	0.0	6.900	0.300	0.0	1.000	2.400	12.000	2.400
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	15.000	23.000
HARDNESS	375.000	380.000	365.000	355.000	76.000	405.000	405.000	230.000
PH	6.600	6.600	6.500	6.600	7.200	7.100	6.500	7.000
CONDUCTANC	1600.000	1670.000	1590.000	1540.000	1164.000	1610.000	1540.000	1445.000
DIS SOLIDS	1090.000	1180.000	980.000	880.000	820.000	1190.000	1250.000	950.000
MANGANESE	0.130	0.100	0.100	0.100	-0.050	0.080	0.070	0.300
ALKALINITY	455.000	437.000	344.000	389.000	675.000	485.000	515.000	444.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.400	0.500	0.520	0.030	0.700	0.600	[illegible].300	0.700
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.020	0.010	0.030	0.020	0.020	0.050	0.050
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	27.000	20.000	17.000	19.000	19.000	6.000	9.000

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.100	0.010	0.100	0.010	0.100	0.050	0.050	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.200	0.100	0.500	0.500	0.200	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.010	0.001	0.001	0.010	0.010	0.0	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.0	0.010	0.020	0.020	0.050	0.050	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.010	0.100	0.010	0.001	0.001	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000
MANGANESE	0.050	0.020	0.0	0.001	0.001	0.001	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.002	0.010	0.001	0.002	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.500	0.100	1.000	1.000	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	5.000	2.000	2.000	5.000	5.000	2.000
SILVER	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	99999.000	10.000	5.000	10.000	10.000	10.000

NNN-J23-0000

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SAMPLES          1        2        3        4        5        6        7        8

STRONTIUM      0.100    0.100    0.0      0.100    0.100    0.100    0.100    0.100
TANTALUM       0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
TERBIUM        0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
THALLIUM       0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
THORIUM        0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
THULIUM        0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
TIN            0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
TITANIUM       0.0      0.005    0.0      0.0      0.0      0.001    0.001    0.001
TUNGSTEN       0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
URANIUM        0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
VANADIUM       0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
YTTERBIUM      0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
YTTRIUM        0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
ZINC           0.0      0.001    0.0      0.0      0.001    0.0      0.0      0.0
ZIRCONIUM      0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
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WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GSM-4

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 156524.43 Y- 238026.20 Z- 7175.00
DATE DRILL COMPL-110674 DATE CONV TO MONITOR-121674 AQUIFER 1: 840.00- 950.00FT AQUIFER 2: 1720.00-1990.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	32975	42675	50875	60975	71775	71775	82975	82975
DEPTH	490.82	492.36	492.74	495.00	550.84	492.77	492.19	561.53
TEMP	54.9	55.4	56.3	56.8	61.7	58.1	59.0	60.2
LAB ID								
LAB NUM	9022	168	169	891	1349	1350	2590	2758
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L
WET								
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	-0.100	-0.100	0.200	0.800	0.400	0.700	1.100
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	850.000	900.000	900.000	800.000	2980.000	780.000	715.000	1880.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	200.000	210.000	220.000	130.000	11.000	80.000	-0.010	14.000
CARBONATE	-0.100	-0.100	-0.100	18.000	130.000	-0.100	-0.100	100.000
CHLORIDE	9.700	14.000	21.000	27.000	96.000	16.000	8.100	15.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.200	0.200	0.200	26.000	0.400	0.400	22.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	7.400	6.400	14.000	15.500	18.000	17.000	7.000
LEAD	0.020	0.750	0.400	0.400	20.000	0.200	0.400	0.900
MAGNESIUM	94.000	89.000	90.000	130.000	45.000	130.000	82.000	43.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	0.002
NITRATE	0.300	0.200	-0.100	0.500	0.200	0.100	0.800	0.600
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	43.000	45.000	45.000	42.000	14.000	49.000	39.000	14.000
SODIUM	210.000	270.000	260.000	260.000	1320.000	360.000	260.000	820.000
SULFATE	610.000	630.000	600.000	600.000	240.000	780.000	660.000	185.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.150	4.400	1.000	0.700	5.500	0.600	0.200	0.500
GROS ALPHA	0.0	2.200	5.600	3.400	6.800	0.0	11.000	6.500
GROSS BETA	0.0	0.0	0.0	0.0	47.000	0.0	49.000	52.000
HARDNESS	890.000	900.000	910.000	870.000	210.000	730.000	805.000	210.000
PH	6.400	6.800	7.100	5.600	7.400	7.000	6.800	7.600
CONDUCTANC	2050.000	2240.000	3120.000	2000.000	2975.000	1922.000	2210.000	3600.000
DIS SOLIDS	1580.000	1710.000	1680.000	1600.000	3360.000	1820.000	1600.000	2150.000
MANGANESE	0.420	0.300	0.300	0.200	0.500	0.200	0.200	0.090
ALKALINITY	700.000	740.000	740.000	665.000	2540.000	640.000	585.000	1623.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	-0.100	0.200	0.040	0.400	0.200	0.200	0.500
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010
NICKEL	0.030	0.030	0.040	0.030	0.060	0.040	0.040	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	12.000	11.000	6.000	3.500	18.000	12.000	10.000

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.010	0.200	0.500	0.050	0.100	0.010	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.200	0.500	0.500	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.010	0.010	0.010	0.001	0.020	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.020	0.050	0.050	0.010	0.020	0.020	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0
LITHIUM	0.010	0.001	0.0	0.001	0.010	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000
MANGANESE	0.010	0.010	0.050	0.001	0.001	0.001	0.010	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	2.000	1.000	0.100	1.000	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.100
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	5.000	2.000	5.000	2.000	2.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	5.000	10.000	99999.000	10.000	5.000

NNN-J23-0000

SAMPLES	1	2	3	4	5	6	7	8
STRONTIUM	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
TITANIUM	0.0	0.001	0.001	0.001	0.0	0.001	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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12/29/75                                        WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GSM-5                                  PAGE  76

JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X-       0.0  Y-       0.0  Z-       0.0  MONITOR AQUIFER
DATE DRILL COMPL- 63075  DATE CONV TO MONITOR- 70175  AQUIFER 1:  250.00- 280.00FT  AQUIFER 2:    0.0 -    0.0 FT


SAMPLES             1          2

DATE            71675      82975
DEPTH          236.39     236.13
TEMP             53.6       56.3
LAB ID
LAB NUM          1351       2759
METHOD              3          3
AQUIF.LOC.          S          M

WET

ALUMINUM       0.0        0.0
AMMONIA        0.600      0.800
ARSENIC       -0.010     -0.010
BICARBONAT   450.000    465.000
CADMIUM       -0.010     -0.010
CALCIUM       28.000     24.000
CARBONATE     10.000     -0.100
CHLORIDE      23.000     11.000
CHROMIUM      -0.010     -0.010
COPPER        -0.100     -0.100
FLUORIDE       0.300      0.500
HYDROXIDE      0.0        0.0
IRON          16.900      8.300
LEAD           0.300      0.700
MAGNESIUM     62.000     67.000
MERCURY       -0.002     -0.002
NITRATE        0.300      5.500
PHOSPHATE     -0.100     -0.100
POTASSIUM      0.0        0.0
SELENIUM      -0.010     -0.010
SIL DIOXID     9.200     10.000
SODIUM       780.000    870.000
SULFATE     1520.000   1740.000
SULFIDE        0.0        0.0
ZINC           1.100      1.200
GROS ALPHA     3.900     17.000
GROSS BETA    44.000     43.000
HARDNESS     325.000    335.000
PH             6.900      6.600
CONDUCTANC  3300.000   3430.000
DIS SOLIDS  2670.000   2960.000
MANGANESE      0.900      0.600
ALKALINITY   370.000    380.000
CYANIDE       -0.010     -0.010
BORON          0.200      0.800
BARIUM        -1.000     -1.000
SILVER        -0.010     -0.010
NICKEL         0.060      0.070
LITHIUM        0.0        0.0
TOC            8.000      6.000
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SAMPLES              1           2


SPECTROGRAPHIC

ALUMINUM         0.050       0.005
ANTIMONY         0.0         0.0
ARSENIC          0.0         0.0
BARIUM           0.001       0.0
BERYLIUM         0.0         0.0
BISMUTH          0.0         0.0
BORON            0.200       0.500
CADMIUM          0.0         0.0
CALCIUM      99999.000   99999.000
CERIUM           0.0         0.0
CESIUM           0.0         0.0
CHROMIUM         0.0         0.0
COBALT           0.0         0.0
COLUMBIUM        0.0         0.0
COPPER           0.001       0.005
DYSPROSIUM       0.0         0.0
ERBIUM           0.0         0.0
EUROPIUM         0.0         0.0
GADOLINIUM       0.0         0.0
GALLIUM          0.0         0.0
GERMANIUM        0.0         0.0
GOLD             0.0         0.0
HAFNIUM          0.0         0.0
HOLMIUM          0.0         0.0
INDIUM           0.0         0.0
IRIDIUM          0.0         0.0
IRON             0.050       0.050
LANTHANUM        0.0         0.0
LEAD             0.0         0.0
LITHIUM          0.001       0.001
LUTETIUM         0.0         0.0
MAGNESIUM    99999.000   99999.000
MANGANESE        0.005       0.001
MERCURY          0.0         0.0
MOLYBDENUM       0.0         0.0
NEODYMIUM        0.0         0.0
NICKEL           0.0         0.0
OSMIUM           0.0         0.0
PALLADIUM        0.0         0.0
PLATINUM         0.0         0.0
POTASSIUM        1.000       0.100
PRASEODYMI       0.0         0.0
RADIUM           0.300       0.0
RHENIUM          0.0         0.0
RHODIUM          0.0         0.0
RUBIDIUM         0.0         0.0
RUTHENIUM        0.0         0.0
SAMARIUM         0.0         0.0
SCANDIUM         0.0         0.0
SELENIUM         0.100       0.0
SILICON          2.000       5.000
SILVER           0.0         0.0
SODIUM          10.000       5.000
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SAMPLES             1          2

STRONTIUM       0.100      0.100
TANTALUM        0.0        0.0
TERBIUM         0.0        0.0
THALLIUM        0.0        0.0
THORIUM         0.0        0.0
THULIUM         0.0        0.0
TIN             0.0        0.0
TITANIUM        0.001      0.001
TUNGSTEN        0.0        0.0
URANIUM         0.0        0.0
VANADIUM        0.0        0.0
YTTERBIUM       0.0        0.0
YTTRIUM         0.0        0.0
ZINC            0.0        0.0
ZIRCONIUM       0.0        0.0
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JOB#-741-40 OWNER-TOSCO LOCATIONS: X- 158553.14 Y- 223281.59 Z- 6741.00
DATE DRILL COMPL-102373 DATE CONV TO MONITOR-111974 AQUIFER 1: 220.00- 440.00FT AQUIFER 2: 820.00-1100.00FT

SAMPLES	1	2	3	4	5	6	7
DATE	42875	51775	61075	71475	71475	82875	82875
DEPTH	25.60	26.90	26.10	125.37	23.57	22.34	125.96
TEMP	46.4	48.9	46.4	59.9	56.3	55.7	53.6
LAB ID							
LAB NUM	172	433	893	1355	1356	2760	2761
METHOD	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	U	L
WET							
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.800	0.600	0.600	0.300	0.400	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	110.000	98.000	150.000	1170.000	255.000	435.000	915.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	17.000	8.000	6.600	15.000	9.000	20.000	9.600
CARBONATE	-0.100	6.000	18.000	-0.100	42.000	-0.100	60.000
CHLORIDE	36.000	34.000	41.000	23.000	16.000	9.500	5.400
CHROMIUM	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.190	0.100	-0.100	-0.100	-0.100	0.100	-0.100
FLUORIDE	0.600	0.700	0.300	18.000	1.000	1.700	14.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	8.700	4.800	7.000	0.900	3.900	7.000	8.500
LEAD	3.400	1.000	0.800	0.090	0.300	0.200	1.000
MAGNESIUM	12.000	3.900	20.000	21.000	29.000	45.000	18.000
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	-0.100	0.400	0.400	1.100	0.200	0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	1.900	0.500	0.400	17.000	13.000	18.000	13.000
SODIUM	140.000	170.000	160.000	500.000	470.000	200.000	380.000
SULFATE	270.000	275.000	230.000	155.000	220.000	170.000	15.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	26.000	0.0
ZINC	1.600	0.400	0.500	0.800	0.300	2.000	0.800
GROS ALPHA	0.500	2.400	1.100	6.400	2.400	4.900	4.600
GROSS BETA	5.000	0.0	0.0	0.0	11.000	18.000	14.000
HARDNESS	90.000	36.000	100.000	125.000	140.000	235.000	100.000
PH	6.000	6.800	7.000	7.300	7.200	7.100	7.800
CONDUCTANC	810.000	810.000	890.000	1891.000	889.000	1065.000	1120.000
DIS SOLIDS	540.000	550.000	560.000	1320.000	900.000	680.000	970.000
MANGANESE	0.560	0.200	0.200	-0.050	0.200	1.000	0.080
ALKALINITY	90.000	85.000	135.000	960.000	244.000	355.000	299.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	-0.010	0.010	1.000	0.800	0.700	0.800
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.040	0.030	0.020	0.020	0.020	0.100	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	21.000	17.000	10.000	14.000	18.000	18.000	8.000

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID TC-1

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SAMPLES              1          2          3          4          5          6          7


SPECTROGRAPHIC

ALUMINUM          0.050      0.200      0.050      0.050      0.050      0.100      0.010
ANTIMONY          0.0        0.0        0.0        0.0        0.0        0.0        0.0
ARSENIC           0.0        0.0        0.0        0.0        0.0        0.0        0.0
BARIUM            0.0        0.0        0.001      0.001      0.0        0.0        0.0
BERYLLIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
BISMUTH           0.0        0.0        0.0        0.0        0.0        0.0        0.0
BORON             0.500      0.500      0.200      0.200      0.500      0.500      0.500
CADMIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
CALCIUM       99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000
CERIUM            0.0        0.0        0.0        0.0        0.0        0.0        0.0
CESIUM            0.0        0.0        0.0        0.0        0.0        0.0        0.0
CHROMIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
COBALT            0.0        0.0        0.0        0.0        0.0        0.0        0.0
COLUMBIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
COPPER            0.005      0.005      0.010      0.010      0.005      0.005      0.001
DYSPROSIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0
ERBIUM            0.0        0.0        0.0        0.0        0.0        0.0        0.0
EUROPIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
GADOLINIUM        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GALLIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
GERMANIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
GOLD              0.0        0.0        0.0        0.0        0.0        0.0        0.0
HAFNIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
HOLMIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
INDIUM            0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRIDIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRON              0.050      0.100      0.050      0.050      0.020      0.020      0.050
LANTHANUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
LEAD              0.001      0.001      0.0        0.0        0.0        0.0        0.0
LITHIUM           0.010      0.001      0.010      0.001      0.001      0.010      0.010
LUTETIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
MAGNESIUM     99999.000  99999.000  99999.000  99999.000  99999.000  99999.000  99999.000
MANGANESE         0.010      0.005      0.005      0.001      0.005      0.001      0.005
MERCURY           0.0        0.0        0.0        0.0        0.0        0.0        0.0
MOLYBDENUM        0.001      0.005      0.0        0.0        0.001      0.001      0.0
NEODYMIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
NICKEL            0.0        0.0        0.0        0.0        0.0        0.0        0.0
OSMIUM            0.0        0.0        0.0        0.0        0.0        0.0        0.0
PALLADIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
PLATINUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
POTASSIUM         2.000      2.000      1.000      1.000      1.000      1.000      1.000
PRASEODYMI        0.0        0.0        0.0        0.0        0.0        0.0        0.0
RADIUM            0.0        0.0        0.0        0.400      0.0        0.0        0.0
RHENIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
RHODIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0
RUBIDIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
RUTHENIUM         0.0        0.0        0.0        0.0        0.0        0.0        0.0
SAMARIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
SCANDIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM          0.0        0.0        0.0        0.0        0.0        0.0        0.0
SILICON           5.000      5.000      5.000      5.000      5.000      5.000      5.000
SILVER            0.0        0.0        0.0        0.0        0.0        0.0        0.0
SODIUM        99999.000     10.000     10.000      5.000      5.000     10.000     10.000
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SAMPLES	1	2	3	4	5	6	7
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.010	0.005	0.001	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID TO-2

JOB#-741-40 OWNER-TOSCO LOCATIONS: X- 151813.11 Y- 229906.56 Z- 6993.00
DATE DRILL COMPL-110473 DATE CONV TO MONITOR-111774 AQUIFER 1: 220.00- 310.00FT AQUIFER 2: 940.00-1020.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32475	42875	42975	51775	51775	61075	61075	71775	71775	71775	83075	83075
DEPTH	340.36	119.60	361.90	118.30	354.40	356.20	116.50	354.42	115.70	354.42	114.60	355.48
TEMP	53.6	50.0	56.3	53.6	56.5	55.6	51.6	58.1	54.5	60.8	56.6	63.0
LAB ID												
LAB NUM	8162	174	173	435	434	894	895	1357	1358	1541	2762	2763
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	L	U	L	L	U	L	U	L	U	L
WET												
ALUMINUM	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	1.400	-0.100	0.400	0.300	0.200	0.300	0.400	-0.100	0.400	0.200	1.200	0.700
ARSENIC	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010
BICARBONAT	370.000	600.000	520.000	575.000	310.000	330.000	540.000	340.000	565.000	435.000	500.000	990.000
CADMIUM	-0.001	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	18.000	97.000	21.000	110.000	5.000	8.200	79.000	6.600	19.000	4.900	28.000	17.000
CARBONATE	36.000	-0.100	120.000	-0.100	36.000	45.000	6.000	42.000	-0.100	60.000	-0.100	48.000
CHLORIDE	15.000	87.000	21.000	20.000	14.000	20.000	20.000	12.000	9.600	9.600	14.000	12.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.100	0.100	-0.100	-0.100	0.100	0.100	0.100	0.200	0.500	0.300	0.200	-0.100
FLUORIDE	4.800	0.200	0.800	0.200	0.700	0.900	0.200	0.800	0.200	1.200	0.400	12.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.100	7.500	2.000	16.000	5.000	6.900	7.900	2.300	16.600	1.400	7.100	2.900
LEAD	0.003	1.600	0.200	0.500	0.200	0.300	0.400	0.300	1.500	0.400	0.200	0.500
MAGNESIUM	48.000	70.000	15.000	30.000	51.000	54.000	59.000	50.000	88.000	53.000	83.000	34.000
MERCURY	0.001	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	0.600	0.100	-0.100	-0.100	0.100	0.700	0.200	0.800	0.200	3.000	0.400
PHOSPHATE	-0.100	-0.100	-0.100	0.300	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	9.500	35.000	2.700	40.000	2.000	0.700	35.000	1.700	37.000	1.900	35.000	14.000
SODIUM	210.000	250.000	400.000	170.000	190.000	180.000	190.000	185.000	200.000	285.000	210.000	400.000
SULFATE	320.000	390.000	310.000	200.000	305.000	250.000	300.000	255.000	305.000	255.000	370.000	180.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.900	0.400	0.300	0.800	0.500	0.300	0.300	1.000	2.300	0.400	0.300
GROS ALPHA	1.600	3.400	1.700	4.000	6.300	3.400	5.600	1.900	2.800	1.600	19.000	5.400
GROSS BETA	21.000	0.0	830.000	0.0	0.0	0.0	0.0	0.0	4.000	6.000	13.000	51.000
HARDNESS	240.000	530.000	110.000	400.000	220.000	240.000	440.000	220.000	410.000	230.000	410.000	180.000
PH	6.400	6.800	6.800	6.600	7.200	7.200	6.200	7.300	7.000	7.400	6.800	7.000
CONDUCTANC	1130.000	1380.000	1120.000	1420.000	1100.000	1150.000	1410.000	1091.000	1430.000	1080.000	1390.000	1910.000
DIS SOLIDS	840.000	1230.000	1150.000	870.000	760.000	730.000	960.000	720.000	950.000	885.000	1000.000	1250.000
MANGANESE	0.140	0.200	0.050	0.100	0.060	0.070	0.200	0.070	0.300	-0.050	0.200	0.050
ALKALINITY	335.000	490.000	528.000	470.000	280.000	307.000	445.000	314.000	465.000	404.000	410.000	849.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.010	-0.100	1.100	0.300	0.400	0.050	0.100	0.200	0.080	0.400	0.400	1.000
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.002	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.002	0.040	0.030	0.020	0.020	0.020	0.020	0.020	0.020	0.010	0.020	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	8.000	17.000	6.000	15.000	14.000	5.000	11.000	5.000	7.000	9.000	7.000

12/29/75

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID TO-2

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.050	0.100	0.100	0.500	0.100	0.010	0.005	0.100	0.050	0.100	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.200	0.500	0.200	0.500	0.200	0.200	0.200	0.200	0.500	0.500
CADMIUM	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	10.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.001	0.010	0.010	0.001	0.001	0.010	0.010	0.010	0.010	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.100	0.010	0.050	0.020	0.020	0.050	0.050	0.010	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
LITHIUM	0.010	0.0	0.010	0.0	0.0	0.001	0.010	0.010	0.010	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000
MANGANESE	0.010	0.010	0.010	0.010	0.0	0.010	0.0	0.005	0.005	0.100	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.001	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	2.000	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.500	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	2.000	5.000	5.000	5.000	5.000	5.000	2.000	10.000	5.000	5.000
SILVER	0.000	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	5.000	99999.000	99999.000	5.000	5.000	5.000	10.000	10.000	10.000	99999.000	10.000	5.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.001	0.010	0.0	0.001	0.0	0.0	0.001	0.010	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	-1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40          OWNER-TOSCO                               LOCATIONS: X- 163550.43 Y- 228948.10 Z-    6652.00
DATE DRILL COMPL-103073  DATE CONV TO MONITOR-101674  AQUIFER 1:  350.00- 440.00FT  AQUIFER 2: 1375.00-1540.00FT


SAMPLES             1          2

DATE            32175      42275
DEPTH           48.38      48.50
TEMP             64.0       59.9
LAB ID
LAB NUM          8161        175
METHOD              3          3
AQUIF.LOC.          U          U

WET

ALUMINUM       -0.010      0.0
AMMONIA         0.0        1.300
ARSENIC        -0.010     -0.010
BICARBONAT   2520.000   2170.000
CADMIUM        -0.001     -0.010
CALCIUM        34.000     29.000
CARBONATE      -0.100    170.000
CHLORIDE       55.000     50.000
CHROMIUM       -0.010      0.050
COPPER         -0.010     -0.100
FLUORIDE       60.000     27.000
HYDROXIDE       0.0        0.0
IRON            0.310      4.700
LEAD            0.002      0.200
MAGNESIUM      18.000     22.000
MERCURY         0.007     -0.010
NITRATE        -0.100      0.300
PHOSPHATE      -0.100     -0.100
POTASSIUM       0.0        0.0
SELENIUM       -0.010     -0.010
SIL DIOXID     26.000     35.000
SODIUM       1060.000   1170.000
SULFATE       140.000     65.000
SULFIDE         0.0        0.0
ZINC           -0.100      0.200
GROS ALPHA      4.000     18.000
GROSS BETA     38.000      0.0
HARDNESS      155.000    160.000
PH              7.000      7.400
CONDUCTANC   3610.000   3900.000
DIS SOLIDS   2630.000   2850.000
MANGANESE       0.240     -0.050
ALKALINITY   2065.000   2360.000
CYANIDE        -0.010     -0.010
BORON           0.150      4.400
BARIUM         -1.000     -1.000
SILVER         -0.001     -0.010
NICKEL          0.007      0.050
LITHIUM         0.0        0.0
TOC             0.0        7.000
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SAMPLES	1	2
SPECTROGRAPHIC		
ALUMINUM	0.100	0.100
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.010	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.100	0.200
CADMIUM	0.0	0.0
CALCIUM	99999.000	10.000
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBALT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.001	0.001
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.050	0.020
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.050	0.010
LUTETIUM	0.0	0.0
MAGNESIUM	99999.000	2.000
MANGANESE	0.001	0.001
MERCURY	0.0	0.0
MOLYBDENUM	0.001	0.0
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0
PLATINUM	0.0	0.0
POTASSIUM	5.000	5.000
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.500
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	2.000	2.000
SILVER	0.0	0.0
SODIUM	99999.000	99999.000

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SAMPLES             1          2

STRONTIUM        0.100      0.010
TANTALUM         0.0        0.0
TERBIUM          0.0        0.0
THALLIUM         0.0        0.0
THORIUM          0.0        0.0
THULIUM          0.0        0.0
TIN              0.0        0.0
TITANIUM         0.001      0.0
TUNGSTEN         0.0        0.0
URANIUM          0.0        0.0
VANADIUM         0.0        0.0
YTTERBIUM        0.0        0.0
YTTRIUM          0.0        0.0
ZINC             0.0        0.0
ZIRCONIUM        0.0        0.0
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WATER QUALITY ANALYSIS SUMMARY

SAMPLE ITEM RANGE AND AVERAGE

	LOWER AQUIFER				UPPER AQUIFER				A AQUIFER			
ITEM	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	LOW	HIGH	AVERAGE	# ITEMS AVERAGED
WET												
ALUMINUM	-0.100	0.600	0.178	9	-0.100	1.000	0.144	17	-0.100	-0.100	0.0	4
AMMONIA	-0.100	9.600	0.697	79	-0.100	1.800	0.394	119	-0.100	1.100	0.272	54
ARSENIC	-0.010	0.030	0.000	80	-0.010	0.040	0.001	123	-0.010	0.010	0.000	65
BICARBONAT	260.000	2980.000	1074.438	80	85.000	2760.000	622.992	123	370.000	755.000	567.769	65
CADMIUM	-0.010	0.010	0.001	80	-0.010	0.100	0.002	123	-0.010	0.090	0.007	65
CALCIUM	0.800	115.000	19.570	80	-0.010	260.000	64.512	123	28.000	210.000	95.846	65
CARBONATE	-0.100	710.000	102.192	80	-0.100	335.000	24.969	123	-0.100	605.000	15.969	65
CHLORIDE	1.400	160.000	31.006	80	-1.000	87.000	17.115	123	6.800	71.000	17.542	65
CHROMIUM	-0.050	-0.010	0.0	78	-0.050	0.050	0.000	122	-0.050	-0.010	0.0	64
COPPER	-0.100	0.300	0.027	80	-0.100	0.600	0.029	123	-0.100	3.200	0.158	65
FLUORIDE	0.200	85.000	15.070	80	0.100	60.000	3.300	123	-0.100	1.200	0.387	64
HYDROXIDE	********************		0.0	0	********************		0.0	0	********************		0.0	0
IRON	-0.050	16.200	4.156	80	-0.050	18.000	6.170	123	-0.050	28.000	7.326	65
LEAD	-0.100	26.000	1.157	80	-0.010	3.800	0.434	123	0.020	0.900	0.244	64
MAGNESIUM	2.400	130.000	33.292	80	3.500	155.000	56.163	123	3.700	145.000	86.292	65
MERCURY	-0.010	0.002	0.000	80	-0.010	0.045	0.000	123	-0.010	0.002	0.000	65
NITRATE	-0.100	2.000	0.387	80	-0.100	7.000	0.568	123	-0.100	21.000	5.228	65
PHOSPHATE	-0.100	0.700	0.037	80	-0.100	1.000	0.023	123	-0.100	0.200	0.008	65
POTASSIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
SELENIUM	-0.100	-0.010	0.0	80	-0.010	-0.001	0.0	123	-0.100	-0.010	0.0	65
SIL DIOXID	-0.100	32.000	9.670	80	-0.100	58.000	27.076	123	22.000	44.000	32.000	65
SODIUM	155.000	1560.000	527.500	80	110.000	1170.000	279.024	123	75.000	310.000	188.462	65
SULFATE	-4.000	600.000	190.887	80	-4.000	900.000	356.748	123	145.000	780.000	435.308	65
SULFIDE	********************		0.0	0	26.000	26.000	26.000	1	********************		0.0	0
ZINC	-0.100	68.000	1.675	80	-0.100	15.000	0.796	123	-0.100	5.700	0.561	63
GROS ALPHA	0.100	30.000	5.765	72	0.200	29.000	5.334	97	1.400	21.000	9.348	61
GROSS BETA	3.000	830.000	49.432	37	2.000	73.000	22.464	28	1.000	35.000	10.680	15
HARDNESS	20.000	690.000	185.313	80	32.000	1110.000	396.244	123	280.000	810.000	593.385	65
PH	6.000	11.000	7.324	80	6.000	8.800	6.789	123	6.000	7.200	6.560	65
CONDUCTANC	900.000	5180.000	2096.662	80	810.000	4200.000	1584.935	123	860.000	2370.000	1543.775	65
DIS SOLIDS	630.000	3640.000	1460.313	80	540.000	2850.000	1147.642	123	640.000	1670.000	1155.154	65
MANGANESE	-0.050	0.500	0.093	80	-0.050	1.000	0.174	123	-0.050	17.000	2.429	65
ALKALINITY	52.000	4500.000	975.989	80	70.000	2360.000	535.834	123	329.000	620.000	470.771	65
CYANIDE	-0.010	0.030	0.000	79	-0.010	-0.010	0.0	122	-0.010	0.010	0.000	65
BORON	-0.100	9.400	1.479	80	-0.100	4.800	0.681	123	-0.010	27.000	1.566	65
BARIUM	-1.000	-0.100	0.0	80	-1.000	-0.100	0.0	123	-1.000	-1.000	0.0	65
SILVER	-0.010	0.100	0.002	80	-0.100	0.100	0.006	123	-0.100	0.070	0.004	64
NICKEL	-0.100	0.100	0.026	80	-0.010	0.200	0.027	123	0.010	0.200	0.053	65
LITHIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
TOC	3.000	73.000	12.613	71	1.000	50.000	10.528	106	5.000	270.000	50.344	61
SPECTROGRAPHIC												
ALUMINUM	0.001	1.000	0.077	80	0.001	1.000	0.132	123	0.005	1.000	0.138	64
ANTIMONY	0.200	0.200	0.200	1	********************		0.0	0	********************		0.0	0
ARSENIC	********************		0.0	0	********************		0.0	0	********************		0.0	0
BARIUM	0.001	0.010	0.002	13	0.001	0.010	0.003	22	0.001	0.010	0.002	18
BERYLIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
BISMUTH	********************		0.0	0	********************		0.0	0	********************		0.0	0

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WATER QUALITY ANALYSIS SUMMARY

SAMPLE ITEM RANGE AND AVERAGE

	LOWER AQUIFER				UPPER AQUIFER				A AQUIFER			
ITEM	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	LOW	HIGH	AVERAGE	# ITEMS AVERAGED
BORON	0.100	0.500	0.351	78	0.100	2.000	0.363	123	0.100	0.500	0.347	64
CADMIUM	99999.000	99999.000	0.0	0	********************		0.0	0	********************		0.0	0
CALCIUM	0.100	99999.000	5.265	23	1.000	99999.000	7.682	17	10.000	99999.000	10.000	5
CERIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
CESIUM	********************		0.0	0	********************		0.0	0	0.001	0.001	0.001	1
CHROMIUM	********************		0.0	0	********************		0.0	0	0.000	0.000	0.000	1
COBOLT	********************		0.0	0	********************		0.0	0	********************		0.0	0
COLUMBIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
COPPER	0.001	0.020	0.005	71	0.001	0.020	0.006	113	0.001	0.020	0.007	63
DYSPROSIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
ERBIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
EUROPIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
GADOLINIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
GALLIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
GERMANIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
GOLD	********************		0.0	0	********************		0.0	0	********************		0.0	0
HAFNIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
HOLMIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
INDIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
IRIDIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
IRON	0.010	0.500	0.046	78	0.010	1.000	0.094	122	0.010	0.500	0.048	64
LANTHANUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
LEAD	0.000	0.500	0.073	10	0.001	0.200	0.027	21	0.001	0.010	0.002	11
LITHIUM	0.001	0.100	0.011	63	0.001	0.500	0.015	92	0.001	0.100	0.009	54
LUTETIUM	0.010	0.010	0.010	1	0.001	0.010	0.005	2	********************		0.0	0
MAGNESIUM	0.100	99999.000	2.764	22	0.100	99999.000	6.006	18	5.000	99999.000	2505.375	8
MANGANESE	0.001	0.100	0.013	63	0.001	0.200	0.020	105	0.001	0.100	0.016	63
MERCURY	********************		0.0	0	********************		0.0	0	********************		0.0	0
MOLYBDENUM	0.001	0.100	0.007	31	0.001	0.500	0.020	62	0.001	0.050	0.006	31
NEODYMIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
NICKEL	********************		0.0	0	********************		0.0	0	0.070	0.070	0.070	1
OSMIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
PALLADIUM	********************		0.0	0	0.100	0.100	0.100	1	********************		0.0	0
PLATINUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
POTASSIUM	0.050	5.000	1.099	78	0.100	5.000	1.054	122	0.010	2.000	0.650	64
PRASEODYMI	********************		0.0	0	********************		0.0	0	********************		0.0	0
RADIUM	0.090	0.900	0.375	24	0.100	0.800	0.200	26	0.100	1.200	0.343	47
RHENIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
RHODIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
RUBIDIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
RUTHENIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
SAMARIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
SCANDIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
SELENIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
SILICON	-0.500	10.000	4.287	80	1.000	20.000	5.268	123	2.000	20.000	5.188	64
SILVER	0.000	0.001	0.001	6	-0.001	0.001	0.001	12	0.000	0.001	0.000	10
SODIUM	2.000	99999.000	5.791	43	2.000	99999.000	5.843	83	2.000	99999.000	6.977	44
STRONTIUM	0.001	1.000	0.096	70	0.001	1.000	0.109	113	0.010	0.100	0.094	61
TANTALUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
TERBIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
THALLIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0
THORIUM	********************		0.0	0	********************		0.0	0	********************		0.0	0

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                                                    WATER QUALITY ANALYSIS SUMMARY                                                    PAGE  3

                                                    SAMPLE ITEM RANGE AND AVERAGE

                         LOWER AQUIFER                              UPPER AQUIFER                                   A AQUIFER
                                                      # ITEMS                                            # ITEMS                                            # ITEMS
ITEM                 LOW          HIGH       AVERAGE AVERAGED      LOW          HIGH       AVERAGE AVERAGED      LOW          HIGH       AVERAGE AVERAGED

THULIUM        ********************          0.0         0   ********************          0.0         0   ********************          0.0         0
TIN                 0.000        0.000       0.000       1        0.001        0.001       0.001       1        0.001        0.001       0.001       2
TITANIUM            0.001        0.010       0.003      38        0.001        0.020       0.004      73        0.001        0.020       0.004      49
TUNGSTEN       ********************          0.0         0   ********************          0.0         0   ********************          0.0         0
URANIUM            -1.500       -1.500       0.0         1   ********************          0.0         0   ********************          0.0         0
VANADIUM       ********************          0.0         0        0.001        0.001       0.001       1   ********************          0.0         0
YTTERBIUM      ********************          0.0         0   ********************          0.0         0   ********************          0.0         0
YTTRIUM        ********************          0.0         0   ********************          0.0         0   ********************          0.0         0
ZINC                0.001        0.200       0.014      17        0.001        0.200       0.015      38        0.001        0.010       0.001      21
ZIRCONIUM      ********************          0.0         0   ********************          0.0         0   ********************          0.0         0

               SAMPLES IN AQUIFER =    80                SAMPLES IN AQUIFER =  123                 SAMPLES IN AQUIFER =    65
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Denver Federal Center
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